

SENIOR SCHOOL CURRICULUM 2021-22



CENTRAL BOARD OF SECONDARY EDUCATION Academic Unit, Shiksha Sadan, 17, Rouse Avenue, New Delhi-110 002



Senior School Curriculum 2021-22

Class XI-XII

PRICE: Unpriced e-Publication

March, 2021, CBSE, Delhi

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Published By	:	Central Board of Secondary Education,
		Academic Unit, Shiksha Sadan, 17, Rouse Avenue, New Delhi-110 002
Design & Layout	:	Multi Graphics, 8A/101, W.E.A. Karol Bagh, New Delhi-110005 • Phone : 9818764111

THE CONSTITUTION OF INDIA

PREAMBLE

WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a '[SOVEREIGN SOCIALIST SECULAR DEMOCRATIC REPUBLIC] and to secure to all its citizens :

JUSTICE, social, economic and political;

LIBERTY of thought, expression, belief, faith and worship;

EQUALITY of status and of opportunity; and to promote among them all

FRATERNITY assuring the dignity of the individual and the² [unity and integrity of the Nation];

IN OUR CONSTITUENT ASSEMBLY this twenty-sixth day of November, 1949, do **HEREBY ADOPT**, **ENACT AND GIVE TO OURSELVES THIS CONSTITUTION**.

1. Subs, by the Constitution (Forty-Second Amendment) Act. 1976, sec. 2, for "Sovereign Democratic Republic" (w.e.f. 3.1.1977)

2. Subs, by the Constitution (Forty-Second Amendment) Act. 1976, sec. 2, for "unity of the Nation" (w.e.f. 3.1.1977)

THE CONSTITUTION OF INDIA

Chapter IV A

FUNDAMENTAL DUTIES

ARTICLE 51A

Fundamental Duties - It shall be the duty of every citizen of India-

- (a) to abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem;
- (b) to cherish and follow the noble ideals which inspired our national struggle for freedom;
- (c) to uphold and protect the sovereignty, unity and integrity of India;
- (d) to defend the country and render national service when called upon to do so;
- (e) to promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic and regional or sectional diversities; to renounce practices derogatory to the dignity of women;
- (f) to value and preserve the rich heritage of our composite culture;
- (g) to protect and improve the natural environment including forests, lakes, rivers, wild life and to have compassion for living creatures;
- (h) to develop the scientific temper, humanism and the spirit of inquiry and reform;
- (i) to safeguard public property and to abjure violence;
- (j) to strive towards excellence in all spheres of individual and collective activity so that the nation constantly rises to higher levels of endeavour and achievement;
- ¹(k) who is a parent or guardian to provide opportunities for education to his/her child or, as the case may be, ward between age of six and forteen years.

1. Ins. by the constitution (Eighty - Sixth Amendment) Act, 2002 S.4 (w.e.f. 12.12.2002)

भारत का संविधान

उद्देशिका

हम, भारत के लोग, भारत को एक सम्पूर्ण ¹प्रभुत्व-संपन्न समाजवादी पंथनिरपेक्ष लोकतंत्रात्मक गणराज्य बनाने के लिए, तथा उसके समस्त नागरिकों को:

सामाजिक, आर्थिक और राजनैतिक न्याय,

विचार, अभिव्यक्ति, विश्वास, धर्म

और उपासना की स्वतंत्रता,

प्रतिष्ठा और अवसर की समता

प्राप्त कराने के लिए तथा उन सब में व्यक्ति की गरिमा

²और राष्ट्र की एकता और अखंडता

सुनिश्चित करने वाली बंधुता बढ़ाने के लिए

दृढ़संकल्प होकर अपनी इस संविधान सभा में आज तारीख 26 नवम्बर, 1949 ई॰ को एतद्द्वारा इस संविधान को अंगीकृत, अधिनियमित और आत्मार्पित करते हैं।

1. संविधान (बयालीसवां संशोधन) अधिनियम, 1976 की धारा 2 द्वारा (3.1.1977) से "प्रभुत्व-संपन्न लोकतंत्रात्मक गणराज्य" के स्थान पर प्रतिस्थापित।

2. संविधान (बयालीसवां संशोधन) अधिनियम, 1976 की धारा 2 द्वारा (3.1.1977) से "राष्ट्र की एकता" के स्थान पर प्रतिस्थापित।

भाग 4 क

मूल कर्तव्य

51 क. मूल कर्तव्य - भारत के प्रत्येक नागरिक का यह कर्तव्य होगा कि वह -

- (क) संविधान का पालन करे और उसके आदर्शों, संस्थाओं, राष्ट्रध्वज और राष्ट्रगान का आदर करे;
- (ख) स्वतंत्रता के लिए हमारे राष्ट्रीय आंदोलन को प्रेरित करने वाले उच्च आदर्शों को हृदय में संजोए रखे और उनका पालन करे;
- (ग) भारत की प्रभुता, एकता और अखंडता की रक्षा करे और उसे अक्षुण्ण रखे;
- (घ) देश की रक्षा करे और आह्वान किए जाने पर राष्ट्र की सेवा करे;
- (ङ) भारत के सभी लोगों में समरसता और समान भ्रातृत्व की भावना का निर्माण करे जो धर्म, भाषा और प्रदेश या वर्ग पर आधारित सभी भेदभाव से परे हों, ऐसी प्रथाओं का त्याग करे जो स्त्रियों के सम्मान के विरुद्ध हैं;
- (च) हमारी सामासिक संस्कृति की गौरवशाली परंपरा का महत्त्व समझे और उसका परिरक्षण करे;
- (छ) प्राकृतिक पर्यावरण की जिसके अंतर्गत वन, झील, नदी, और वन्य जीव हैं, रक्षा करे और उसका संवर्धन करे तथा प्राणी मात्र के प्रति दयाभाव रखे;
- (ज) वैज्ञानिक दृष्टिकोण, मानववाद और ज्ञानार्जन तथा सुधार की भावना का विकास करे;
- (झ) सार्वजनिक संपत्ति को सुरक्षित रखे और हिंसा से दूर रहे;
- (ञ) व्यक्तिगत और सामूहिक गतिविधियों के सभी क्षेत्रों में उत्कर्ष की ओर बढ़ने का सतत प्रयास करे जिससे राष्ट्र निरंतर बढ़ते हुए प्रयत्न और उपलब्धि की नई उंचाइयों को छू ले;
- '(ट) यदि माता-पिता या संरक्षक है, छह वर्ष से चौदह वर्ष तक की आयु वाले अपने, यथास्थिति, बालक या प्रतिपाल्य के लिये शिक्षा के अवसर प्रदान करे।
- 1. संविधान (छयासीवां संशोधन) अधिनियम, 2002 की धारा 4 द्वारा प्रतिस्थापित।



1. PRINCIPLES OF THE CBSE CURRICULUM

The curriculum refers to the lessons and educational content to be taught to a learner in a school. In empirical terms, it may be regarded as the sum total of a planned set of educational experiences provided to a learner by a school. It encompasses general objectives of learning, competencies to be attained, courses of study, subject-wise learning outcomes and content, pedagogical practices and assessment guidelines. The curriculum provided by CBSE is based on National Curriculum Framework-2005 and seeks to provide opportunities for students to achieve excellence in learning.

1.1 Salient Features of the CBSE Senior Secondary School Curriculum

The Curriculum prescribed by CBSE strives to:

- 1. provide ample scope for holistic i.e. physical, Intellectual and social development of students;
- 2. emphasize constructivist rather than rote learning by highlighting the importance of hands-on experience;
- enlist general and specific teaching and assessment objectives to make learning competency based;
- 4. encourage the application of knowledge and skills in real life problem solving scenarios;
- 5. uphold the Constitutional Values by encouraging values-based learning activities;
- promote Critical and Creative Thinking aligned to the 21st Century Skills in classrooms;
- integrate innovations in pedagogy such as experiential learning, Sport & Art-Integrated Learning ,toy-based pedagogy, storytelling, gamification etc. with technological innovations (ICT integration) to keep pace with the global trends in various disciplines;



2

- 8. promote inclusive practices as an overriding consideration in all educational activities;
- 9. enhance and support learning by different types of assessments; and
- 10. integrate environmental education in various disciplines from classes I- XII.

1.2 Objectives of the Curriculum

- 1. achieve desired national level of competencies in cognitive, affective and psychomotor domains;
- 2. facilitate acquisition of 21st Century Skills and enhance self and social awareness through thematic or multidisciplinary approach;
- 3. promote Cooperative Learning, Collaborative Learning, Self-directed learning etc. to facilitate realization of learning outcomes;
- 4. promote Authentic Assessments based on real world tasks involving meaningful application of knowledge and skills;
- 5. promote Life Skills , inculcate values , foster cultural learning and international understanding in an interdependent society;
- 6. acquire the ability to utilize technology and information for the betterment of humankind;
- 7. strengthen knowledge and attitude related to livelihood skills and promote lifelong learning;
- 8. develop the ability to appreciate art and showcase talents;
- 9. promote physical fitness, health and well-being

1.3 Curriculum Areas at Senior Secondary Level

For the purpose of fostering competences in learners, the curriculum encompasses seven major learning areas, which are: Languages, Humanities, Mathematics, Sciences, Skill Subjects, General Studies and Health and Physical Education. These areas are broadly divided into electives and compulsory areas as detailed below:-

मारत
मित्री मा सारणभू क

Languages		
Electives Electives		
Skill Electives		
General Studies	Compulsory	
Health & Physical Education		
*Work Experience		

*Work experience is subsumed in Health and Physical Education

1.3.1 Elective Areas:

- Languages include Hindi, English and other 30 languages. The curricula in languages focus on listening, speaking, reading and writing skills for developing effective communicative proficiency. Learners use language to comprehend, acquire and communicate ideas.
- (ii) Humanities and Social Sciences- Geography, History, Economics, Home Science, Sociology, Fine Arts, Political Science, and related subjects promote the learning of history and culture, geographical environment, global institutions, constitutional values and norms, politics, economy, interpersonal and societal interactions, civic responsibilities and the interplay of all these. Learners appreciate and value every human's right to feel respected and safe, and, in this regard, also understand their Fundamental Rights and Duties and behave responsibly. Learners learn to be tolerant and empathetic towards others through the study of these subjects.
- (iii) Sciences: Biology, Chemistry, Physics, Computer Science, and Informatics Practices help in making students perceptive about matter and energy, nature, the environment, technological breakthroughs in science. The focus is on knowledge and skills to develop a scientific attitude and to use and apply such knowledge for improving the quality of life. The Curriculum promotes the ability to engage with sciencerelated issues, and with the ideas of science, as a reflective citizen by being able to explain phenomena scientifically, evaluate and design



scientific enquiry, and interpret data and evidence scientifically. Students understand the importance of to apply scientific knowledge in the context of real-life situations and gain competencies that enable them to participate effectively and productively in life.

- (iv) Mathematics includes acquiring the concepts related to numbers, operations, computation, measurement, geometry, probability and statistics, the skill to calculate and organize and the ability to apply this knowledge and acquired skills in their daily life. It also includes understanding of the principles of reasoning and problem solving. Learners identify, integrate and apply numerical and spatial concepts and techniques. They have clarity of concepts and are able to connect them to the real world. Learners rationalize and reason about pre-defined arrangements, norms and relationships in order to comprehend, decode, validate and develop relevant patterns.
- (v) Business and commerce based electives- Business Studies, Accountancy, Entrepreneurship, Economics and related subjects help in gaining understanding about core business disciplines. They understand the concept like, the exchange of items of value or products between persons or companies and the meaning / relevance/ significance of any such exchange of money for a product, service, or information.
- (vi) Visual; Performing and Creative Arts- Subjects like Dance, Drama, Music, Heritage Crafts, Fine Arts, Sculpture and related subjects aim to help learners cultivate an interest and appreciation for arts and encourage them to enthusiastically participate in related activities, thus, promoting abilities such as imagination, creativity, value arts, and the cultural heritage.
- (vii) Skill Electives help in development of professional competencies, which are analytical, applied and outcome based. Undergoing skills training in schools can help students learn about a trade progressively to create a product and also to become a problem solver in real life.



At present many Skill electives are being offered by the Board in the fields of Hospitality and Tourism, emerging technology like Artificial Intelligence, Geospatial Technology, Finance, Business, and Retail & Insurance etc. Students can also choose subject from diverse areas such as Fashion Design, Agriculture, Banking, Mass-Media Healthcare and many more students.

(viii) Health and Physical Education focuses on holistic development, both mental and physical, understanding the importance of physical fitness, health, well-being and the factors that contribute to them. Focus of this area is on helping learners develop a positive attitude and commitment to lifelong, healthy active living and the capacity to live satisfying, productive lives with the help of health management, indigenous sports, yoga, NCC, self-defense, fitness and lifestyle choices.

These learning areas are to be integrated with each other in terms of knowledge, skills (life and livelihood), comprehension, values and attitudes. Learners should get opportunities to think laterally, critically, identify opportunity, challenge their potential and be open to challenges. Learners value and engage in practices that promote physical, cognitive, emotional and social development and wellbeing. This enables learners to connect different areas of knowledge, application and values with their own lives and the world around them. The holistic nature of human learning and knowledge should be brought forth throughout.

(ix) General Studies: The purpose of orienting students to General Studies is to develop in them an appreciation for the holistic nature of knowledge. In contemporary times, familiarity with General Studies is indispensable because at the senior school stage there is an element of specialization due to which the students do not get exposed to some vital disciplines/areas of study that are not covered in their specialized field. The documents with details of Health and Physical Education and General Studies are available on www.cbseacademic.nic.in



2. IMPLEMENTATION OF CURRICULUM

2.1 School Curriculum Committee

The Board mandates that all schools must setup a School Curriculum Committee comprising teachers from each curricular area. The School Curriculum Committee would define activities for pedagogical practices, evolve a plan of assessment and mechanism of feedback and reflection and ensure its implementation. The committee would also ensure that the textbooks/ reference materials are age appropriate, incorporate inclusive principles, gender sensitive, have valid content and do not contain any material which may hurt the sentiments of any community. The committee will then send the list of books to the Principal to take action as per para 2.4.7 (b) of the Affiliation Byelaws, 2018.The committee would also ensure that the reference materials reflect conformity with the underlying principles of the Constitution of India and are compliant with NCF-2005. Issues of gender, social, cultural and regional disparities must be taken care of in the curriculum transaction.

2.2 Pedagogical Leadership:

Principals have a crucial role in the evolution of the teaching- learning ecosystem as pedagogical leader of their schools. As pedagogical leaders, they are expected to undertake the following:

- a) Lead, Guide and Support the teaching and learning processes in the school by focusing on classroom specific requirements for transacting the curriculum, so that both teachers and students perform at their best.
- b) Direct the entire focus of all school activities towards the students' learning and acquiring of necessary competencies. Every activity taken up by the school, therefore, should be mapped for the competencies, and for life skills, values, etc., being acquired by the students.
- c) Prepare Annual Pedagogical Plan of the school by designing and developing annual plan for the school by giving equal importance to elective and compulsory areas.



- Promote innovative pedagogy, with special focus on integrating art, sports and ICT (Information and Communication Technology) with education, and use active and experiential learning methods in the classrooms.
- e) Ensure joyful learning at all levels through use of such innovative pedagogy.
- f) Develop school specific resources for teaching and learning, in the form of lesson plans, e-content, use of mathematics and science kits developed by NCERT, etc.
- g) Ensure proper in-house training of teachers in the school to enable them to unleash their own unique capabilities and creativity in their classrooms.
- h) To be up to date with all new ideas and tools, etc. being used in education at the global level and constantly innovate the pedagogy of the school.
- To make efforts to learn from the best practices of other schools, by arranging for discussions with Principals of such schools, or through observation visits of teachers to other schools.

Respecting the autonomy of every school, the Board has not laid down the structure or format of the annual pedagogical plan. A schools needs to prepare its unique, implementable and innovative annual plan. This plan must be with realistic timelines that should include administrative inputs and detailed pedagogical aspects.

2.3 Pedagogical Practices by Teachers

The pedagogical practices should be learner centric. It is expected of a teacher to ensure an atmosphere for students to feel free to ask questions. They would promote active learning among students with a focus on reflections, connecting with the world around them, creating and constructing knowledge. The role of a teacher should be that of a facilitator who would encourage collaborative learning and development of multiple



skills through the generous use of resources via diverse approaches for transacting the curriculum.

Teachers should follow inclusive principles and not label children as 'slow learners' or 'bright students', or 'problem children'. They should instead attend to the individual difference of students by diagnosing and modifying their pedagogic planning. As far as possible, Arts should be integrated in teaching, especially while teaching the concept which students find difficult to understand.

2.4 Competency based Learning:

To face the challenges of 21st Century, education should be competency based and Principals as Pedagogical Leaders must create conducive environment for development of competencies among the students. Competency based Learning focuses on the student's demonstration of desired learning outcomes as central to the learning process. Learning outcomes are statements of abilities that are expected students will gain as a result of learning the activity. Learning outcomes are, thus, statements of what a learner is expected to know, understand and/or be able to demonstrate after completion of a process of learning. Therefore, the focus is on measuring learning through attainment of prescribed learning outcomes, rather than on measuring time. Experiential and active learning are the recommend pedagogies for Competency Based Learning. Experiential Learning promotes critical thinking, creativity and effective study skills among students. Learning Outcomes sugested by NCERT for classes' I-X must be adopted by all the schools and teaching-learning process may be changed in the light of these outcomes. The schools are expected to have well-defined Learning objectives mapped with the stipulated learning outcomes for every grade that are observable and measurable, and empower learners to focus on mastery of valuable skills and knowledge. It is expected that teachers will provide meaningful and joyful learning experiences to the students by adopting variety of innovative pedagogies or instructional activities and go beyond textbooks. Schools are expected to track the attainment of Learning Outcomes in each learner and ensure that no child is left behind.



2.5 Lesson/ Unit Plan

Specific Lesson Plans for the topics are to be prepared by the teachers. These plan may have the following parts:

- Specific Learning Outcomes;
- Pedagogical Strategies;
- Group activities/experiments/hands-on-learning;
- Interdisciplinary Linkages and infusion of Life-skills, Values, Gender sensitivity etc.;
- Resources (including ICT);
- Assessment items for measuring the attainment of the Learning Outcome
- Feedback and Remedial Teaching Plan.
- Inclusive Practices

2.6 Classroom and School Environment

School environment should be conducive for holistic development of the students. The school should focus on health and hygiene by adopting inclusive practices. As part of the policy the school should adopt practices which will promote mental health. In this direction, the schools may follow the guidelines issued by the Board on making the school a No-Anger Zone or Anger Free Zone. The board has developed school health manuals which are available on www.cbseacademic.nic.in. The time table in the school should take care of proper rest and intake of healthy foods and the children learn subjects with relaxation. School must also ensure that Children avoid the intake of junk food and should ban it around school premises. Intake of the healthy foods should be encouraged with activities described in circular issued by CBSE.

The surroundings and daily life activities and situations are the best



experiential teachers for the students. Teachers must make efforts to draw examples and group activities from daily life observations within the classroom/within the school and surroundings, and encourage presentations and reflection by the students once the activity is completed, to develop the skills of critical thinking and communication.

Children learn a lot through peer learning. To promote peer learning, flexible seating arrangements may be made available during the classroom transactions. The seating should also take care of the needs of the students with disabilities as well. Learning should focus on individual differences and promote collaborative learning. The classroom activities must be connected to the immediate environment of children. The school should maintain connection with the parents and the progress of children should be communicated to the parents, and, if needed remedial measures be taken up for improving the learning outcomes.

2.7 Creating Cross-Curricular Linkages

Creating cross-curricular linkages are vital to learning as they help to connect prior knowledge with new information. For example, Mathematical data handling and interpretation can be effectively applied in geography and science. Children can write better-framed answers in history, geography and science when they have learnt how to write explanations/ short descriptions in a language. Similarly, Life Skills like empathy, problem solving and interpersonal communications can be easily integrated with the study of literature and other areas. Universal Values, Life Skills and Constitutional Values with emphasis on realization of Fundamental Duties may be incorporated depending upon context in almost all the subjects.

2.8 Special emphasis on Integrating Arts in education:

All disciplines being pursued by students at all stages require creative thinking and problem-solving abilities. Therefore, when Art is integrated with education, it helps the child apply art-based enquiry, investigation and exploration, critical thinking and creativity for a deeper understanding of the concepts/topics. Secondly, Art Integrated learning is a strong contender



for experiential learning, as it enables the student to derive meaning and understanding, directly from the learning experience. Thirdly, this kind of integration not only makes the teaching and learning process joyful, it also has a positive impact on the development of certain life skills, such as, communication skills, reflection and enquiry skills, un-conditioning of the mind leading to higher confidence levels and self-esteem, appreciation for aesthetics and creativity, etc. Fourthly, this kind of integration broadens the mind of the student, and enables him/her to see the multi-disciplinary links between subjects, topics, and real life. Schools are, thus, required to take up the integration of Art with the teaching learning process.

It must be understood that Art Education and Art Integrated Education may be mutually exclusive, but they build upon each other and strengthen each other. Art Education is not only relevant for developing creativity and appreciation of art among students, but is also necessary for inculcating artbased enquiry skills in the students. Art Education is a necessary precursor for the adoption of Art Integrated learning.

2.8.1 Art Education and Art Integration:

The following two-pronged approach is followed during a session:

- (i) Art education continues to be an integral part of the curriculum, as a compulsory area at Secondary level. The schools may also promote and offer Visual and Performing Arts based subjects at the Secondary and Senior Secondary level.
- (ii) Art needs to be integrated with the teaching and learning process of all subjects from classes 1 to 12, to promote active and experiential learning for "connecting knowledge to life outside the school, ensuring that learning shifts away from rote methods and for enriching the curriculum, so that it goes beyond textbooks."

2.8.2 Art Integrated Pedagogy:

While preparing its annual pedagogical plan under the leadership of the Principal of the school, the school must plan out in detail the Art Education



to be imparted at various levels, and how that Art can be integrated with classroom learning of various subjects. The focus must be on mutually reinforcing Art as a subject and Art as a tool for learning, with efforts towards seamless integration. Team teaching (combination of subject teachers and Art teachers) would also strengthen the integration.

For implementing this in classrooms, the subject teacher picks the topic/ concept/idea that she wants to teach by integrating art. The teacher can do this jointly with the Art teacher too. Then, the subject teacher collaborates with the Art teacher to align the pedagogy. Next, the teacher teaches the topic/concept/idea ensuring active learning and ensuring that both the subject and Art are integrated well and there is learning in both areas. Finally, the teacher prepares a rubric to assess the student in both the areas - that is, the topic taught and the Art used.

2.9 21st Century Skills:

There is an increased awareness among the educators of the need to integrate what are called as 21st Century skills in educational systems. There are three key 21st century skills i.e. Learning Skills, Literacy Skills and Life Skills.

Learning skills include:

- Critical Thinking
- Creativity
- Communication
- Collaboration

Literacy skills include:

- Information literacy
- Media literacy
- Technology literacy

Life skills include:

- Flexibility
- Leadership
- Initiative
- Productivity
- Self-awareness

Schools must focus on enhancing the skills required for a successful adult life in 21st Century. It is important that the students are able to think scientifically, mathematically or artistically to face the real-life challenges in an information and technology driven world and enhance their inherent potential. CBSE has publised a handbook on 21st century skills available at its website. Schools may further refer to it.

2.10 Inclusive Education:

Inclusive approach in education is a prerequisite for ensuring full participation of all students with equal opportunity in all areas without any discrimination. Inclusive attitude in all staff and faculty members is crucial for successful inclusive education. Therefore, all the members of teaching and non-teaching staff should be sensitized on the issues of inclusive education. Students without disabilities should also be sensitized. Schools must organize these sensitization programmes with the support of experts from respective field of disabilities. Capacity Building Programmes on Inclusive Education may be organized in collaboration with the CBSE-Centres of Excellence. Board has made the appointment of special educator mandatory to all the schools affiliated to the CBSE. Special Educators must possess the qualification as prescribed by the Rehabilitation Council of India. (CBSE Circular No. 31/2015). CBSE has published a handbook on Inclusive Education available at its website.



3. SCHEME OF STUDIES

Class XI and XII is a composite course. Students need to take only those subjects in class XI which he/she intends to continue in class-XII. Students can offer a minimum of 5 or more subjects in class XI. They need to continue the same subjects in class XII.

3.1 Combination of Subjects: Subjects can be offered as under:					
Subje	ect	Name of Subjects			
	Subject 1	Hindi Elective or Hindi Core or English Elective or English Core			
	Subject 2	Any one Language from Group - L not opted as Subject 1 OR Any one Elective from the Group - A			
Compulsory	Subject 3, Subject 4, and Subject 5	Any three electives either from Group - A Or Group-S OR Any three from Combination of Group - A and Group - S			
Additional Sub- ject Optional	Subject 6	Any one elective or Language from any subject group not opted as subjects 1-5			
Subjects of Internal As- sessment	Subject 7 to 9 (to be taken by all Regular Candidates)	*Work Experience Health and Physical Education General Studies			

*Work experience is subsumed in Health and Physical Education

 a) Hindi or English must be one of the two languages to be studied in class XI and XII. Hindi and English can also be offered simultaneously.
 In Hindi and English, two courses have been provided for class XI



and XII keeping in view the varying backgrounds of the students and a student may either opt Hindi Elective (Code 002) or Hindi Core (Code 302) and English Elective (Code-001) or English Core (Code-301). However, the same language cannot be offered both at Core and Elective levels.

In addition to above, the following combinations cannot be taken together;

- 3.1.1.1 Business Studies (Code 054) and Business Administration (Code 833)
- 3.1.1.2 Out of three Computer Science/IT related subjects i.e. Informatics Practices (065), Computer Science (Code 083), and Information Technology (Code 802), a candidate can opt only for one subject.
- 3.1.1.3 Biology (Code 044) and Biotechnology (Code 045)
- 3.1.1.4 Mathematics (Code 041) and Applied Mathematics (Code 241)
- b) The first 5 subjects in the chronological order of filling the subjects in the online registration system/ Mark Sheet are considered as Main subjects.
- c) A candidate can also offer an additional elective which may either be a language at elective level or, any other elective subject.
- d) While transacting the Curriculum, due emphasis should be laid on National Identity and Values Education. Schools are expected to draw their own programmes in this area in accordance with the guidelines given from time to time by the Board. Likewise, programmes in General Studies and Health and Physical Education be planned in accordance with the guidelines brought out by the Board.
- e) For candidates who take 6 subjects (5 main and 1 additional subject) and pass in all 6 subjects, the percentage is to be calculated by the employer/institution/university according to the norms of employer/ institution/university in which the candidate will be seeking admission.



- f) If a student has taken 6th subjects, and if he/she fails in any one of first five subjects, the same will be replaced by the 6th subject provided the candidate satisfies the scheme of studies i.e. after replacement either Hindi or English remains as one of the main five subjects.
- g) Skill electives can be offered along with any subject, as per the scheme of studies.
- b) Board is extending several exemptions/concessions to candidates with disabilities as defined in the "THE RIGHTS OF PERSONS WITH DISABILITIES ACT 2016". Exemptions/Concessions extended to Persons with Benchmark Disabilities for Class X & XII Examinations conducted by the Board and the Standard Operating Procedure for availing these concessions are available on :

https://www.cbse.gov.in/cbsenew/Examination_Circular/2019/5_ CIRCULAR.pdf

Schools and candidates may also refer to the circulars issued by the Board from time to time on this matter.

i) For Regional Languages, the Board prescribes the textbooks being followed in classes XI and XII in the respective State Boards where the language is taught. Schools are also advised to bring to the notice of CBSE the changes, if any, brought out at the commencement of the session by the respective State Boards, in the textbooks of the language of their State. Schools are directed to strictly follow the textbooks prescribed by CBSE in its curriculum. Changes, if any, can be adopted only when CBSE notifies them. School will be responsible for any issue arising out of School not following Boards' directives.

16

a. Subjects Offered

LIST OF SUBJECTS

LANGUAGES (GROUP - L)						
S No	CODE	NAME		Theory	Practical	IA
1	001	ENGLISH ELECTIVE		080		020
	301	ENGLISH CORE	Any One	080		020
2	002	HINDI ELECTIVE		080		020
	302	HINDI CORE	Any One	080		020
3	003	URDU ELECTIVE	Any One	080		020
	303	URDU CORE		080		020
4	022	SANSKRIT ELECTIVE		080		020
	322	SANSKRIT CORE	Any One	080		020
5	104	PUNJABI	1	080		020
6	105	BENGALI		080		020
7	106	TAMIL		080		020
8	107	TELUGU	Any One	080		020
	189	TELUGU TELANGANA		080		020
9	108	SINDHI	1	080		020
10	109	MARATHI		080		020
11	110	GUJARATI		080		020
12	111	MANIPURI		080		020
13	112	MALAYALAM		080		020
14	113	ODIA		080		020
15	114	ASSAMESE		080		020
16	115	KANNADA		080		020
17	116	ARABIC		080		020
18	117	TIBETAN		080		020



19	118	FRENCH		080		020
20	120	GERMAN		080		020
21	121	RUSSIAN		080		020
22	123	PERSIAN		080		020
23	124	NEPALI		080		020
24	125	LIMBOO		080		020
25	126	LEPCHA		080		020
26	192	BODO		080		020
27	193	TANGKHUL		080		020
28	194	JAPANESE		080		020
29	195	BHUTIA		080		020
30	196	SPANISH		080		020
31	197	KASHMIRI		080		020
32	198	MIZO		080		020
Academics Electives (GROUP-A)						
	<u> </u>	Academics	Electives (C	GROUP-A)		
S No	CODE	Academics NAME	Electives (C	GROUP-A) Theory	Practical	IA
S No	CODE 027	Academics NAME HISTORY	Electives (C	GROUP-A) Theory 080	Practical	IA 020
S No 1 2	CODE 027 028	Academics NAME HISTORY POLITICAL SCIENCE	Electives (C	GROUP-A) Theory 080 080	Practical 	IA 020 020
S No 1 2 3	CODE 027 028 029	Academics NAME HISTORY POLITICAL SCIENCE GEOGRAPHY	Electives (C	FROUP-A) Theory 080 080 070	Practical 030	IA 020 020
S No 1 2 3 4	CODE 027 028 029 030	Academics NAME HISTORY POLITICAL SCIENCE GEOGRAPHY ECONOMICS	Electives (C	GROUP-A) Theory 080 080 080 070 080	Practical 030 	IA 020 020 020
S No 1 2 3 4 5	CODE 027 028 029 030 031	Academics NAME HISTORY POLITICAL SCIENCE GEOGRAPHY ECONOMICS CARNATIC MUSIC VO- CAL	Electives (C	GROUP-A) Theory 080 080 080 070 080 030	Practical 030 050	IA 020 020 020 020 020
S No 1 2 3 4 5	CODE 027 028 029 030 031 032	Academics NAME HISTORY POLITICAL SCIENCE GEOGRAPHY ECONOMICS CARNATIC MUSIC VO- CAL CARNATIC MUSIC MEL. INS.	Electives (C	GROUP-A) Theory 080 080 080 070 080 030 030	Practical 030 050 050	IA 020 020 020 020 020 020
S No 1 2 3 4 5	CODE 027 028 029 030 031 032 033	Academics NAME HISTORY POLITICAL SCIENCE GEOGRAPHY ECONOMICS CARNATIC MUSIC VO- CAL CARNATIC MUSIC MEL. INS. CARNATIC PER. INS. MRIDANGAM	Electives (C	GROUP-A) Theory 080 080 080 070 080 070 080 030 030 030	Practical 030 050 050 050	IA 020 020 020 020 020 020 020
S No 1 2 3 4 5	CODE 027 028 029 030 031 032 033 034	Academics NAME HISTORY POLITICAL SCIENCE GEOGRAPHY ECONOMICS CARNATIC MUSIC VO- CAL CARNATIC MUSIC MEL. INS. CARNATIC PER. INS. MRIDANGAM HINDUSTANI MUSIC VOCAL	Electives (C	GROUP-A) Theory 080 080 080 070 080 070 080 030 030 030 030 030 030	Practical 030 050 050 050 050 050 050 050 050	IA 020 020 020 020 020 020 020 020
S No 1 2 3 4 5	CODE 027 028 029 030 031 032 033 034 035	Academics NAME HISTORY POLITICAL SCIENCE GEOGRAPHY ECONOMICS CARNATIC MUSIC VO- CAL CARNATIC MUSIC MEL. INS. CARNATIC PER. INS. MRIDANGAM HINDUSTANI MUSIC VOCAL HINDUSTANI MUSIC MEL. INS.	Any One	GROUP-A) Theory 080 080 080 070 080 070 080 030 030 030 030 030 030 030 030 030 030	Practical 030 050 050 050 050 050 050 050 050 050 050 050 050 050	IA 020 020 020 020 020 020 020 020 020
S No 1 2 3 4 5	CODE 027 028 029 030 031 032 033 034 035 036	Academics NAME HISTORY POLITICAL SCIENCE GEOGRAPHY ECONOMICS CARNATIC MUSIC VO- CAL CARNATIC MUSIC MEL. INS. CARNATIC PER. INS. MRIDANGAM HINDUSTANI MUSIC VOCAL HINDUSTANI MUSIC MEL. INS. HINDUSTANI PER. INS.	Any One	GROUP-A) Theory 080 080 080 070 080 070 080 070 080 070 080 030 030 030 030 030 030 030 030 030 030 030	Practical 030 050 050 050 050 050 050 050 050 050 050 050 050 050 050 050 050	IA 020 020 020 020 020 020 020 020 020



7	039	SOCIOLOGY		080		020
8	041	MATHEMATICS		080		020
	241*	APPLIED MATHEMAT- ICS	Any One	080		020
9	042	PHYSICS		070	030	
10	043	CHEMISTRY		070	030	
11	044	BIOLOGY		070	030	
	045	BIOTECHNOLOGY	Any One	070	030	
12	046	ENGINEERING GRAPHIC	S	070	030	
13	048	PHYSICAL EDUCATION		070	030	
14	049	PAINTING	Any	030	070	
	050	GRAPHICS	one	030	070	
	051	SCULPTURE		030	070	
	052	APPLIED/ COMMER- CIAL ART		030	070	
15	054	BUSINESS STUDIES		080		020
16	055	ACCOUNTANCY		080		020
17	056	KATHAK - DANCE		030	070	
	057	BHARATNATYAM - DANCE		030	070	
	058	KUCHIPUDI - DANCE		030	070	
	059	ODISSI - DANCE		030	070	
	060	MANIPURI - DANCE	Any one	030	070	
	061	KATHAKALI - DANCE		030	070	
18	064	HOME SCIENCE		070	030	
19	065	INFORMATICS PRAC- TICES	Any one	070	030	
	083	COMPUTER SCIENCE		070	030	
20	066	ENTREPRENEURSHIP		070		030



21	073	KNOWLEDGE TRADITION & PRAC-	070		030
		TICES OF INDIA			
22	074	LEGAL STUDIES	080		020
23	076	NATIONAL CADET CORPS (NCC)	070	030	

Skills Elective (Group-S)

S. No.	SUB. CODE	NAME	JOB ROLES	MARKS DISTRIBUTION	
				THEORY	PRACTICAL
1.	801	RETAIL	SALES ASSOCIATE	60	40
2.	802	INFORMATION TECHNOLOGY	IT HELPDESK ASSIS- TANT	60	40
3.	803	WEB APPLICATION	WEB DEVELOPER	60	40
4.	804	AUTOMOTIVE	AUTOMOTIVE SER- VICE TECHNICIAN	60	40
5.	805	FINANCIAL MARKETS MANAGEMENT	EQUITY DEALER/ MUTUAL FUND AGENT	60	40
6.	806	TOURISM	TOUR GUIDE	60	40
7.	807	BEAUTY & WELL- NESS	BEAUTY THERAPIST	60	40
8.	808	AGRICULTURE	AGRICULTURE EXTENSION WORKER	70	30
9.	809	FOOD PRODUCTION	TRAINEE COMMIE	60	40
10.	810	FRONT OFFICE OPERATIONS	COUNTER SALES EXECUTIVE	60	40
11.	811	BANKING	SALES EXECUTIVE (BANKING PRODUCT)	60	40
12.	812	MARKETING	MARKETING EXECU- TIVE	60	40
13.	813	HEALTH CARE	GENERAL DUTY ASSISTANT	60	40
14.	814	INSURANCE	SALES EXECUTIVE (INSURANCE)	60	40
15.	816	HORTICULTURE	FLORICULTURIST (PROTECTED)/ ENTREPREEUR	60	40
16.	817	TYPOGRAPHY & COMPUTER APPLICATION	EXECUTIVE ASSIS- TANT	60	40



17.	818	GEOSPATIAL TECHNOLOGY	GIS OPERATOR	60	40
18.	819	ELECTRICAL TECH- NOLOGY	FIELD TECHNI- CIAN-OTHER HOME	60	40
19.	820	ELECTRONIC TECH- NOLOGY	INSTALLATION TECH- NICIAN	60	40
20.	821	MULTI-MEDIA	ANIMATOR	50	50
21.	822	TAXATION	ASSISTANT TAX CON- SULTANT / GST AC- COUNTS ASSISTANT	60	40
22.	823	COST ACCOUNTING	JR. ACCOUNTANT	60	40
23.	824	OFFICE PROCE- DURES & PRACTICES	EXECUTIVE ASSIS- TANT	60	40
24.	825	SHORTHAND (EN- GLISH)	STENOGRAPHER	60	40
25.	826	SHORTHAND (HINDI)	STENOGRAPHER	60	40
26.	827	AIR-CONDITIONING & REFRIGERATION	SERVICE TECHNICIAN	60	40
27.	828	MEDICAL DIAGNOS- TICS	MEDICAL LAB TECH- NICIAN	60	40
28.	829	TEXTILE DESIGN	DESIGN ASSISTANT (APPAREL / TEXTILE)	60	40
29.	830	DESIGN	ASSISTANT DESIGNER	50	50
30.	831	SALESMANSHIP	SALES EXECUTIVE	60	40
31.	833	BUSINESS ADMINIS- TRATION	BUSINESS EXECUTIVE	70	30
32.	834	FOOD NUTRITION & DIETETICS	ASSISTANT DIETICIAN	70	30
33.	835	MASS MEDIA STUDIES	MEDIA ASSISTANT	70	30
34.	836	LIBRARY & INFORMATION SCIENCE	LIBRARY ASSISTANT	70	30
35.	837	FASHION STUDIES	ASSISTANT FASHION DESIGNER	70	30
36.	841	YOGA	YOGA INSTRUCTOR	50	50
37.	842	EARLY CHILDHOOD CARE & EDUCATION	EARLY CHILDHOOD EDUCATOR	50	50
38.	843	ARTIFICIAL INTELLIGENCE (NEW)		50	50



The curriculum and the study material for the Skill Electives are available on the CBSE academic website under the tab 'Skill Education' and can be accessed through the link: http://cbseacademic.nic.in/skill-education.html.

3.3. Medium of Instruction

The medium of instruction in general in all the schools affiliated with the Board shall either be Hindi or English.

4. STRUCTURE OF ASSESSMENT SCHEME

The Assessment scheme will have theory, internal assessment or practical components as per syllabus given for each subject. Board shall conduct Annual examinations for class XII

As the Board is progressively allowing more space to 'learning outcome based' assessment in place of textbook driven assessment, question papers of Board examinations will have more questions based on real-life situations requiring students to apply, analyse, evaluate and synthesize information as per the stipulated outcomes. The core-competencies to be assessed in all questions, however, will be from the prescribed syllabus and textbooks recommended therein. This will eliminate predictability and rote learning to a large extent.

4.1 Annual examination:

For Class XII

The Board Examination will cover the entire syllabus of Class-XII as per syllabus for each subject. Grades shall be awarded on the basis of 9-point grading system in each elective subject. For awarding the grades, the Board will put all the passed students in a rank order and will award the grades as follows:

A-1	Top 1/8th of the passed candidates	
A-2	Next 1/8th of the passed candidates	
B-1	Next 1/8th of the passed candidates	
B-2	Next 1/8th of the passed candidates	



C-1	Next 1/8th of the passed candidates	
C-2	Next 1/8th of the passed candidates	
D-1	Next 1/8th of the passed candidates	
D-2	Next 1/8th of the passed candidates	
E*	*Essential Repeat	

Notes:-

- Minor variations in proportion of candidates to adjust ties will be made.
- (ii) In case of a tie, all the students getting the same score will get the same grade. If the number of students at a score point needs to be divided into two segments, the smaller segment will go with the larger.
- (iii) Method of grading will be used in subjects where the number of candidates who have passed is more than 500.
- (iv) In respect of subjects where the total number of candidates passing as subject is less than 500, the grading would be adopted on the pattern of grading and distribution in other similar subjects.

For Class XI:

The assessment scheme will be similar to class XII Board examination and shall be carried out at school level. However, the grading in class XI will be as follows:

Grading Scale for Elective Areas (Class-XI)			
(School will award grades as per the following grading scale)			
MARK RANGE	GRADE		
91-100	A1		
81-90	A2		
71-80	B1		



24

61-70	B2
51-60	C1
41-50	C2
33-40	D
32 and below	*Essential Repeat

Absolute grading is suggested for class XI keeping in view the number of students appearing from any particular school as against positional grading used for class XII.

4.2 Internal Assessment:

Internal Assessment in different subjects will be as per details given in the syllabus for each subject.

4.3 Assessment of Compulsory Areas

Assessment of compulsory Areas may be continuously done by collecting information, reflecting on and using that information to review children's progress and to plan future learning experiences. The documented data, after interpretation, should be reflected in the Report Card of the children in the form of grades.

In the existing scheme of assessment, these activities will be graded on a 8-point grading scale (A1 to E) for classes XI -XII and will have no descriptive indicators. The students shall be assessed on three areas i.e. Health and Physical Education with Work Experience and General Studies. Work Experience is subsumed in the Health and Physical Education. No up scaling of grades will be done.

The concerned teacher would make an objective assessment of the level of performance/ participation demonstrated by a student throughout the academic year and finally assign grades.

Parameters of Assessment

Marks and grades on the basis of 9-point grading system may be awarded in



each compulsory area (General Studies, Health and Physical Education) for classes XI and XII as detailed below:

Grading for General Studies:

Grade	Description
A1	Top1/8 th of the passed candidates
A2	Next 1/8 th of the passed candidates
B1	Next 1/8 th of the passed candidates
B2	Next 1/8 th of the passed candidates
C1	Next 1/8 th of the passed candidates
C2	Next 1/8 th of the passed candidates
D1	Next 1/8 th of the passed candidates
D2	Next 1/8 th of the passed candidates
E	Essential Repeat

Distribution of Periods/ Grades for Internal Assessment in Health and Physical Education (with Work Experience subsumed in it)

Strand	Periods (Approx.)	Grades*
 1. GAMES a) Athletics/ Swimming b) Team Games c) Individual Games/ Activity d) Adventure Sports 	90 periods	While filling online data, following grades may be filled against HPE: Class XI-XII: Grade (A-E) on 9-point scale
2. Health and Fitness	50 periods	
3. SEWA	50 periods	While filling online data, following grades of SEWA shall be filled against Work Education / Work Experience: Class XI-XII: Grade (A-E) on 9-point scale (A1,A2,B1,B2,C1,C2,D1,D2,E)
4. Health and Activity Card	10 periods	- Enclosed separately
Total	200 Periods (Approx.)	-



* Refer the detailed HPE guidelines available on www.cbseacademic.nic.in with the amendment given above.

4.4 Design of the Question Paper for Board examination:

To ensure flexibility in the assessment at Board examination, the detailed design of the paper is not included in the curriculum document. The details of design of the Q.P shall be subsequently notified with the sample question paper. However the Board examination shall test as per weightage allocated to each area or unit given in the respective subject.

4.5 Development of competencies through Student Enrichment activities:

In the recent pas board has been organizing various activities for promoting various 21st century skills. Following are some such activities introduced with the intention of enhancement of the skills and values.

S. No.	Student Enrichment Activity	Skills/Values to be Enhanced
1	Story Telling Competition	 Thinking Skills: Creative, Analytical, Evaluative
2	Reading Week	Communication Skills
3	Fastest Reading Contest	Linguistic Skills
4	Aryabhata Ganit Challenge	Reasoning Abilities
		Problem Solving Skills
		Critical thinking
		Analytical thinking
		 Ability to manipulate precise and intricate ideas
		 Ability to construct logical arguments
5	CBSE Heritage India Quiz	Values of respect for diversity and tolerance
		 Awareness about preserving Indian heritage and monuments
		Critical thinking skills
		 Appreciation for rich heritage and diversity of the country



6	Science Exhibition	Critical and Creative Thinking Skills	
7	Science Literacy Promo- tion Test	Problem Solving Skills	
		Scientific Temperament	
		 Connecting Science to day to day life 	
8	Expression Series	Creative Thinking Skills	
9	Eco-Club Activities	Awareness about	
10	Swachhata Abbiyan	Environmental Conservation and	
10	Swachhata Abhryan	Protection	
		Cleanliness Habits	
11	Ek Bharat Shrestha Bharat	Spirit of Patriotism and Unity	
12	Rashtriya Ekta Diwas	Constitute Chillin	
13	Inter School Band Competition	Creative Skills	
14	Fit India School Week	Healthy life style	
15	CBSE Inter-School Sports & Games Competitions	Attention and concentration powers	
16	International Day of Yoga		
17	Matri bhasha Diwas	 Awareness of Linguistic and Cultural traditions 	
		• Values of Tolerance and Dialogue	
		Communication Skills	
Addition in the last table in both the Senior secondary and Secondary Curiculum			
18	The Constitution Day	importance of Constitution, its history, structure and implications to citizens	
		orientation to composite culture and diversity of our nation	
		awareness of Fundamental Rights and Duties as enshrined in the Indian Constitution.	



19	Art Integrated Project	application of art-based enquiry, investigation and exploration, critical thinking and creativity for a deeper understanding of the concepts/topics	
		promotes experiential learning as it enables to derive meaning and understanding directly from the learning	
		enables students to see the multi-disciplinary linkages between subjects, topics, and real life.	

Schools are encouraged to participate in these activities of the Board for making students future ready.

4.5.1 Rules regarding Admission and Examination

Regarding eligibility for Admission, Eligibility for Examination, Scheme of Examination and related information, please see the Examination Bye-Laws of CBSE available on www.cbse.nic.in





CENTRAL BOARD OF SECONDARY EDUCATION Academic Unit, Shiksha Sadan, 17, Rouse Avenue, New Delhi-110 002

English Core Code No. 301 Class XI (2021-22) Term Wise Syllabus

SECTION	TERM I	WEIGHTAGE (IN MARKS)	TERM II	WEIGHTAGE (IN MARKS)
A	 Reading Comprehension: Unseen passage (factual, descriptive or literary/ discursive or persuasive) Case Based Unseen (Factual) Passage 	8 + 5 = 13	 Reading Comprehension: Unseen passage (factual, descriptive or literary /discursive or persuasive) Unseen passage for Note Making and Summarising 	8 + 5 = 13
В	Creative Writing Skills and Grammar: <u>Short Writing Tasks</u> • Notice Writing	3	Creative Writing Skills and Grammar: Short Writing Tasks • Posters	3
	 Long Writing Tasks Business or Official Letters(Making enquiries, registering complaints, asking for or giving information, placing orders and sending replies) Speech Grammar Determiners Tenses Re-ordering of Sentences {MCQs on Gap filling/ Transformation of Sentences} 	+ 5 + 4 = 12	Long Writing Tasks • Official Letters: e.g. to school/college authorities (regarding admissions, school issues, requirements / suitability of courses) • Debate Grammar • Determiners • Tenses • Tenses • Re-ordering of Sentences {MCQs on Gap filling/ Transformation of Sentences }	+ 5 + 4 = 12
C	Literature: Literary-prose/poetry extracts (seen- texts) comprehension and appreciation. (Two Extracts) Questions Based on Texts to assess comprehension and appreciation, analysis, inference, extrapolation Book-Hornbill: • The Portrait of a Lady (<i>Prose</i>) • A Photograph (<i>Poem</i>) • "We're Not Afraid to Die if We Can All Be Together" (<i>Prose</i>) • Discovering Tut: the Saga Continues • The Laburnum Top (<i>Poem</i>) • Landscape of the Soul (Prose) Book-Snapshots: • The Summer of the Beautiful White Horse(Prose) • The Address (Prose) • Ranga's Marriage (Prose)	9 Marks for Hornbill + 6 Marks for Snapshots = 15 Marks	Literature: Questions based on extracts/texts to assess comprehension and appreciation, analysis, inference, extrapolation Book-Hornbill: • The Voice of the Rain (Poem) • The Ailing Planet: The Green Movement's Role (Prose) • The Browning Version(Play) • Childhood (Poem) • Silk Road (Prose) Book-Snapshots: • Albert Einstein at School (Prose) • Mother's Day (Play) • Birth (Prose)	9 Marks for Hornbill + 6 Marks for Snapshots = 15 Marks
	TOTAL	40	TOTAL	40
	ASL	10	ASL	10
	GRAND TOTAL	40 + 10 = 50 MARKS	GRAND TOTAL	40 + 10 = 50 MARKS

Prescribed Books

1. Hornbill: English Reader published by National Council of Education Research

and Training, New Delhi

2. Snapshots: Supplementary Reader published by National Council of Education Research and Training, New Delhi

English Core Code No. 301 Class XII (2021-22) Term Wise Syllabus

SECTION	TERM 1	WEIGHTAGE (IN MARKS)	TERM II	WEIGHTAGE (IN MARKS)
A	Reading Comprehension: (Two Passages) Unseen passage (factual, descriptive or literary/ discursive or persuasive) Case Based Unseen (Factual) Passage	14 (8+6 Marks)	 Reading Comprehension: (Two Passages) Unseen passage (factual, descriptive or literary/ discursive or persuasive) Case Based Unseen (Factual) Passage 	14 (8+6 Marks)
	Creative Writing Skills :		Creative Writing Skills :	
В	 <u>Short Writing Tasks</u> Notice Writing Classified Advertisements <u>Long Writing Tasks(One)</u> Letter to an Editor (giving suggestions or opinion on issues of public interest) Article Writing 	3+5 marks Total=08	 Short Writing Tasks Formal & Informal Invitation Cards or the Replies to Invitation/s Long Writing Tasks(One) Letter of Application for a Job Report Writing 	3+5 Marks Total=08
C	Literature : Literary-prose/poetry extracts (seen- texts) to assess comprehension and appreciation, analysis, inference, extrapolation Questions Based on Texts to assess comprehension and appreciation, analysis, inference, extrapolation Book- Flamingo (Prose) • The Last Lesson • Lost Spring	11 Marks for Flamingo + 7 Marks for Vistas = 18 Marks	Literature: Questions based on extracts/texts to assess comprehension and appreciation, analysis, inference, extrapolation Book-Flamingo (Prose) The Rattrap Indigo Book-Flamingo (Poetry) A Thing of Beauty	11 Marks for Flamingo + 7 Marks for Vistas = 18 Marks
	 Deep Water Deep Water Book-Flamingo (Poetry) My Mother at Sixty-Six An Elementary School Classroom in a Slum Keeping Quiet Book-Vistas (Prose) The Third Level The Enemy 		 A Thing of Beauty Aunt Jennifer's Tigers Book-Vistas (Prose) Should Wizard Hit Mommy? On the Face of It Evans Tries an O Level 	
	TOTAL	40	TOTAL	40
	ASL	10	ASL	10
	GRAND TOTAL	40 + 10 = 50	GRAND TOTAL	40 + 10 = 50

Prescribed Books

1. Flamingo: English Reader published by National Council of Education Research and Training, New Delhi

2. Vistas: Supplementary Reader published by National Council of Education Research and Training, New Delhi

हिंदी (आधार) (कोड सं.- 302) कक्षा 11वीं-12वीं (2021-22)

प्रस्तावनाः

दसवीं कक्षा तक हिंदी का अध्ययन करने वाला विद्यार्थी समझते हुए पढ़ने व सुनने के साथ-साथ हिंदी में सोचने और उसे मौखिक एवं लिखित रूप में व्यक्त कर पाने की सामान्य दक्षता अर्जित कर चुका होता है। उच्चतर माध्यमिक स्तर पर आने के बाद इन सभी दक्षताओं को सामान्य से ऊपर उस स्तर तक ले जाने की आवश्यकता होती है, जहाँ भाषा का प्रयोग भिन्न-भिन्न व्यवहार-क्षेत्रों की मांगों के अनुरूप किया जा सके। आधार पाठ्यक्रम, साहित्यिक बोध के साथ-साथ भाषाई दक्षता के विकास को ज्यादा महत्त्व देता है। यह पाठ्यक्रम उन विद्यार्थियों के लिए उपयोगी साबित होगा, जो आगे विश्वविद्यालय में अध्ययन करते हुए हिंदी को एक विषय के रूप में पढ़ेंगे या विज्ञान/सामाजिक विज्ञान के किसी विषय को हिंदी माध्यम से पढ़ना चाहेंगे। यह उनके लिए भी उपयोगी साबित होगा, जो उच्चतर माध्यमिक स्तर की शिक्षा के बाद किसी तरह के रोज़गार में लग जाएंगे। वहाँ कामकाजी हिंदी का आधारभूत अध्ययन काम आएगा। जिन विद्यार्थियों की रुचि जनसंचार माध्यमों में होगी, उनके लिए यह पाठ्यक्रम एक आरंभिक पृष्ठभूमि निर्मित करेगा। इसके साथ ही यह पाठ्यक्रम सामान्य रूप से तरह-तरह के साहित्य के साथ विद्यार्थियों के संबंध को सहज बनाएगा। विद्यार्थी भाषिक अभिव्यक्ति के सूक्ष्म एवं जटिल रूपों से परिचित हो सकेंगे। वे यथार्थ को अपने विचारों में व्यवस्थित करने के साधन के तौर पर भाषा का अधिक सार्थक उपयोग कर पाएँगे और उनमें जीवन के प्रति मानवीय संवेदना एवं सम्यक् दृष्टि का विकास हो सकेगा।

उद्देश्यः

- संप्रेषण के माध्यम और विधाओं के लिए उपयुक्त भाषा प्रयोग की इतनी क्षमता उनमें आ चुकी होगी कि वे स्वयं इससे जुड़े उच्चतर पाठ्यक्रमों को समझ सकेंगे।
- भाषा के अंदर सक्रिय सत्ता संबंध की समझ।
- 🛛 सृजनात्मक साहित्य की समझ और आलोचनात्मक दृष्टि का विकास।
- विद्यार्थियों के भीतर सभी प्रकार की विविधताओं (धर्म, जाति, लिंग, क्षेत्र एवं भाषा संबंधी) के प्रति सकारात्मक एवं विवेकपूर्ण रवैये का विकास।
- पठन-सामग्री को भिन्न-भिन्न कोणों से अलग-अलग सामाजिक, सांस्कृतिक चिंताओं के परिप्रेक्ष्य में देखने का अभ्यास करवाना तथा आलोचनात्मक दृष्टि का विकास करना।
- विद्यार्थी में स्तरीय साहित्य की समझ और उसका आनंद उठाने की क्षमता तथा साहित्य को श्रेष्ठ बनाने वाले तत्वों की संवेदना का विकास।
- विभिन्न ज्ञानानुशासनों के विमर्श की भाषा के रूप में हिंदी की विशिष्ट प्रकृति और उसकी क्षमताओं का बोध।
- कामकाजी हिंदी के उपयोग के कौशल का विकास।
- जनसंचार माध्यमों (प्रिंट और इलेक्ट्रॉनिक) में प्रयुक्त हिंदी की प्रकृति से परिचय और इन माध्यमों की आवश्यकता के अनुरूप मौखिक एवं लिखित अभिव्यक्ति का विकास।
- विद्यार्थी में किसी भी अपरिचित विषय से संबंधित प्रासंगिक जानकारी के स्रोतों का अनुसंधान और व्यवस्थित ढंग से उनकी मौखिक और लिखित प्रस्तुति की क्षमता का विकास।

शिक्षण-युक्तियाँ:

• कुछ बातें इस स्तर पर हिंदी शिक्षण के लक्ष्यों के संदर्भ में सामान्य रूप से कही जा सकती हैं। एक तो यह है कि कक्षा में दबाव एवं तनाव मुक्त माहौल होने की स्थिति में ही ये लक्ष्य हासिल किए जा सकते हैं। चूँकि इस पाठ्यक्रम में तैयारशुदा उत्तरों को कंठस्थ कर लेने की कोई अपेक्षा नहीं है, इसलिए विषय को समझने और उस समझ के आधार पर उत्तर को शब्दबद्ध करने की योग्यता विकसित करना ही शिक्षक का काम है। इस योग्यता के विकास के लिए कक्षा में विद्यार्थियों और शिक्षिका के बीच निर्बाध संवाद जरूरी है। विद्यार्थी अपनी शंकाओं और उलझनों को जितना ही अधिक व्यक्त करेंगे, उतनी ही ज्यादा स्पष्टता उनमें आ पाएगी।
- भाषा की कक्षा से समाज में मौजूद विभिन्न प्रकार के द्वंद्वों पर बातचीत का मंच बनाना चाहिए। उदाहरण के लिए संविधान में किसी शब्द विशेष के प्रयोग पर निषेध को चर्चा का विषय बनाया जा सकता है। यह समझ जरूरी है कि विद्यार्थियों को सिर्फ सकारात्मक पाठ देने से काम नहीं चलेगा बल्कि उन्हें समझाकर भाषिक यथार्थ का सीधे सामना करवाने वाले पाठों से परिचय होना जरूरी है।
- शंकाओं और उलझनों को रखने के अलावा भी कक्षा में विद्यार्थियों को अधिक-से-अधिक बोलने के लिए प्रेरित किया जाना जरूरी है। उन्हें यह अहसास कराया जाना चाहिए कि वे पठित सामग्री पर राय देने का अधिकार और ज्ञान रखते हैं। उनकी राय को प्राथमिकता देने और उसे बेहतर तरीके से पुनः प्रस्तुत करने की अध्यापकीय शैली यहाँ बहुत उपयोगी होगी।
- विद्यार्थियों को संवाद में शामिल करने के लिए यह भी जरूरी होगा कि उन्हें एक नामहीन समूह न मानकर अलग-अलग व्यक्तियों के रूप में अहमियत दी जाए। शिक्षकों को अक्सर एक कुशल संयोजक की भूमिका में स्वयं देखना होगा, जो किसी भी इच्छुक व्यक्ति को संवाद का भागीदार बनने से वंचित नहीं रखते, उसके कच्चे-पक्के वक्तव्य को मानक भाषा-शैली में ढाल कर उसे एक आभा दे देते हैं और मौन को अभिव्यंजना मान बैठे लोगों को मुखर होने पर बाध्य कर देते हैं।
- अप्रत्याशित विषयों पर चिंतन तथा उसकी मौखिक व लिखित अभिव्यक्ति की योग्यता का विकास शिक्षकों के सचेत प्रयास से ही संभव है। इसके लिए शिक्षकों को एक निश्चित अंतराल पर नए-नए विषय प्रस्तावित कर उनपर लिखने तथा संभाषण करने के लिए पूरी कक्षा को प्रेरित करना होगा। यह अभ्यास ऐसा है, जिसमें विषयों की कोई सीमा तय नहीं की जा सकती। विषय की असीम संभावना के बीच शिक्षक यह सुनिश्चित कर सकते हैं कि उसके विद्यार्थी किसी निबंध-संकलन या कुंजी से तैयारशुदा सामग्री को उतार भर न ले। तैयार शुदा सामग्री के लोभ से, बाध्यतावश ही सही मुक्ति पाकर विद्यार्थी नये तरीके से सोचने और उसे शब्दबद्ध करने के लिए तैयार होंगे। मौखिक अभिव्यक्ति पर भी विशेष ध्यान देने की जरूरत है, क्योंकि भविष्य में साक्षात्कार, संगोष्ठी जैसे मौकों पर यही योग्यता विद्यार्थी के काम आती है। इसके अभ्यास के सिलसिले में शिक्षकों को उचित हावभाव, मानक उच्चारण, पॉज, बलाघात, हाजिरजवाबी इत्यादि पर खास बल देना होगा।
- काव्य की भाषा के मर्म से विद्यार्थी का परिचय कराने के लिए जरूरी होगा कि किताबों में आए काव्यांशों की लयबद्ध प्रस्तुतियों के ऑडियो-वीडियो कैसेट तैयार किए जाएँ। अगर आसानी से कोई गायक/गायिका मिले तो कक्षा में मध्यकालीन साहित्य के शिक्षण में उससे मदद ली जानी चाहिए।
- एन सी ई आर टी, मानव संसाधन विकास मंत्रालय के विभिन्न संगठनों तथा स्वतंत्र निर्माताओं द्वारा उपलब्ध कराए गए कार्यक्रम/ई-सामग्री,वृत्तचित्रों और सिनेमा को शिक्षण सामग्री के तौर पर इस्तेमाल करने की जरूरत है। इनके प्रदर्शन के क्रम में इन पर लगातार बातचीत के जरिए सिनेमा के माध्यम से भाषा के प्रयोग की विशिष्टता की पहचान कराई जा सकती है और हिंदी की अलग-अलग छटा दिखाई जा सकती है। विद्यार्थियों को स्तरीय परीक्षा करने को भी कहा जा सकता है।
- कक्षा में सिर्फ एक पाठ्यपुस्तक की उपस्थिति से बेहतर यह है कि शिक्षक के हाथ में तरह-तरह की पाठ्यसामग्री को विद्यार्थी देख सकें और शिक्षक उनका कक्षा में अलग-अलग मौकों पर इस्तेमाल कर सके।
- भाषा लगातार ग्रहण करने की क्रिया में बनती है, इसे प्रदर्शित करने का एक तरीका यह भी है कि शिक्षक खुद यह सिखा सकें कि वे भी शब्दकोश, साहित्यकोश, संदर्भग्रंथ की लगातार मदद ले रहे हैं। इससे विद्यार्थियों में इसका इस्तेमाल करने को लेकर तत्परता बढ़ेगी। अनुमान के आधार पर निकटतम अर्थ तक पहुँचकर संतुष्ट होने की जगह वे सही अर्थ की खोज करने के लिए प्रेरित होंगे। इससे शब्दों की अलग-अलग रंगत का पता चलेगा और उनमें संवेदनशीलता बढ़ेगी। वे शब्दों के बारीक अंतर के प्रति और सजग हो पाएँगे।
- कक्षा-अध्यापन के पूरक कार्य के रूप में सेमिनार, ट्यूटोरियल कार्य, समस्या-समाधान कार्य, समूहचर्चा, परियोजना कार्य, स्वाध्याय आदि पर बल दिया जाना चाहिए। पाठ्यक्रम में जनसंचार माध्यमों से संबंधित अंशों को देखते हुए यह जरूरी है कि समय-समय पर इन माध्यमों से जुड़े व्यक्तियों और विशेषज्ञों को भी विद्यालय में बुलाया जाए तथा उनकी देख-रेख में कार्यशालाएँ आयोजित की जाएं।
- भिन्न क्षमता वाले विद्यार्थियों के लिए उपयुक्त शिक्षण सामग्री का इस्तेमाल किया जाए तथा उन्हें किसी भी प्रकार से अन्य विद्यार्थियों से कमतर या अलग न समझा जाए।

 कक्षा में शिक्षक को हर प्रकार की विविधताओं(लिंग जाति, धर्म, वर्ग आदि) के प्रति सकारात्मक और संवेदनशील वातावरण निर्मित करना चाहिए।

<u>आंतरिक मूल्यांकन हेत</u>ु – श्रवण तथा वाचन परीक्षा हेतु दिशा-निर्देश

- श्रवण (सुनना) (5अंक): वर्णित या पठित सामग्री को सुनकर अर्थग्रहण करना, वार्तालाप करना, वाद-विवाद, भाषण, कवितापाठ आदि को सुनकर समझना, मूल्यांकन करना और अभिव्यक्ति के ढंग को समझना।
- वाचन (बोलना) (5अंक): भाषण, सस्वर कविता-पाठ, वार्तालाप और उसकी औपचारिकता, कार्यक्रम-प्रस्तुति, कथा-कहानी अथवा घटना सुनाना, परिचय देना, भावानुकूल संवाद-वाचन।

टिप्पणी: वार्तालाप की दक्षताओं का मूल्यांकन निरंतरता के आधार पर परीक्षा के समय ही होगा। निर्धारित 10 अंकों में से 5 श्रवण (सुनना) कौशल के मूल्यांकन के लिए और 5 वाचन (बोलना) कौशल के मूल्यांकन के लिए होंगे।

वाचन (बोलना) एवं श्रवण (सुनना) कौशल का मूल्यांकनः

 परीक्षक किसी प्रासंगिक विषय पर एक अनुच्छेद का स्पष्ट वाचन करेगा। अनुच्छेद तथ्यात्मक या सुझावात्मक हो सकता है। अनुच्छेद लगभग 250 शब्दों का होना चाहिए।

या

- परीक्षक 2-3 मिनट का श्रव्य अंश (ऑडियो क्लिप) सुनवाएगा। अंश रोचक होना चाहिए। कथ्य/ घटना पूर्ण एवं स्पष्ट होनी चाहिए। वाचक का उच्चारण शुद्ध, स्पष्ट एवं विराम चिह्नों के उचित प्रयोग सहित होना चाहिए।
- परीक्षार्थी ध्यानपूर्वक परीक्षक/ऑडियो क्लिप को सुनने के पश्चात परीक्षक द्वारा पूछे गए प्रश्नों का अपनी समझ से मौखिक उत्तर देंगे। (1x5 =5)
- किसी निर्धारित विषय पर बोलनाः जिससे विद्यार्थी अपने व्यक्तिगत अनुभवों का प्रत्यास्मरण कर सकें।
- कोई कहानी सुनाना या किसी घटना का वर्णन करना।
- परिचय देना। (स्व/ परिवार/ वातावरण/ वस्तु/ व्यक्ति/ पर्यावरण/ कवि /लेखक आदि)
- परीक्षण से पूर्व परीक्षार्थी को तैयारी के लिए कुछ समय दिया जाए।
- विवरणात्मक भाषा में वर्तमान काल का प्रयोग अपेक्षित है।
- निर्धारित विषय परीक्षार्थी के अनुभव-जगत के हों।
- जब परीक्षार्थी बोलना आरंभ करें तो परीक्षक कम से कम हस्तक्षेप करें।

कौशलों के अंतरण का मूल्यांकन

(इस बात का निश्चय करना कि क्या विद्यार्थी में श्रवण और वाचन की निम्नलिखित योग्यताएँ हैं)

क्र.	श्रवण (सुनना)		वाचन (बोलना)
1	परिचित संदर्भों में प्रयुक्त शब्दों और पदों को समझने की सामान्य योग्यता है।	1	केवल अलग-अलग शब्दों और पदों के प्रयोग की योग्यता प्रदर्शित करता है।
2	छोटे सुसंबद्ध कथनों को परिचित संदर्भों में समझने की योग्यता है।	2	परिचित संदर्भों में केवल छोटे संबद्ध कथनों का सीमित शुद्धता से प्रयोग करता है।

3	परिचित या अपरिचित दोनों संदर्भों में कथित सूचना को स्पष्ट समझने की योग्यता है।	3	अपेक्षाकृत दीर्घ भाषण में जटिल कथनों के प्रयोग की योग्यता प्रदर्शित करता है।
4	दीर्घ कथनों की शृंखला को पर्याप्त शुद्धता से समझने के ढंग और निष्कर्ष निकाल सकने की योग्यता है।	4	अपरिचित स्थितियों में विचारों को तार्किक ढंग से संगठित कर धारा-प्रवाह रूप में प्रस्तुत करता है।
5	जटिल कथनों के विचार-बिंदुओं को समझने की योग्यता प्रदर्शित करने की क्षमता है।	5	उद्देश्य और श्रोता के लिए उपयुक्त शैली को अपना सकता है।

परियोजना कार्य - कुल अंक 10

विषय वस्तु	-	5 अंक
भाषा एवं प्रस्तुति	-	3 अंक
शोध एवं मौलिंकता	-	2 अंक

- हिन्दी भाषा और साहित्य से जुड़े विविध विषयों/ विधाओं / साहित्यकारों / समकालीन लेखन / साहित्यिक वादों / भाषा के तकनीकी पक्ष / प्रभाव / अनुप्रयोग / साहित्य के सामाजिक संदर्भी एवं जीवन मूल्य संबंधी प्रभावों आदि पर परियोजना कार्य दिए जाने चाहिए।
- सत्र के प्रारंभ में ही विद्यार्थी को विषय चुनने का अवसर मिले ताकि उसे शोध, तैयारी और लेखन के लिए पर्याप्त समय मिल सके ।
- > वाचन -श्रवण कौशल एवं परियोजना कार्य का मूल्यांकन विद्यालय स्तर पर आंतरिक परीक्षक द्वारा ही किया जाएगा।

परियोजना-कार्य

'परियोजना' शब्द योजना में 'परि' उपसर्ग लगने से बना है। 'परि' का अर्थ है 'पूर्णता' अर्थात ऐसी योजना जो अपने आप में पूर्ण हो परियोजना कहलाती है। किसी विशेष लक्ष्य की प्राप्ति हेतु जो योजना बनाई और कार्यान्वित की जाती है, उसे परियोजना कहते हैं। यह किसी समस्या के निदान या किसी विषय के तथ्यों को प्रकाशित करने के लिए तैयार की गई एक पूर्ण विचार योजना होती है।

राष्ट्रीय पाठ्यचर्चा की रूपरेखा, नई शिक्षा नीति 2020 तथा केन्द्रीय माध्यमिक शिक्षा बोर्ड द्वारा समय-समय पर अनुभवात्मक अधिगम, आनंदपूर्ण अधिगम की बात की कही गई है। उच्चतर माध्यमिक स्तर पर विद्यार्थियों के लिए हिंदी का अध्ययन एक सृजनात्मक, साहित्यिक, सांस्कृतिक और विभिन्न प्रयुक्तियों की भाषा के रूप में करने और करवाने के लिए परियोजना कार्य अत्यंत महत्वपूर्ण व लाभदायक सिद्ध होता है।

परियोजना का महत्व

- व्यक्तिगत स्तर पर खोज, कार्रवाई और ग्यारहवीं-बारहवीं कक्षा के दौरान अर्जित ज्ञान और कौशल, विचारों आदि पर चिंतन का उपयोग।
- सैद्धांतिक निर्माणों और तर्कों का उपयोग करके वास्तविक दुनिया के परिदृश्यों का विश्लेषण और मूल्यांकन
- एक स्वतंत्र और विस्तारित कार्य का निर्माण करने के लिए महत्वपूर्ण और रचनात्मक सोच कौशल और क्षमताओं के अनुप्रयोग का प्रदर्शन
- उन विषयों पर कार्य करने का अवसर जिनमें शिक्षार्थियों की रुचि है
- नए ज्ञान की ओर अग्रसर

- खोजी प्रवृत्ति में वृद्धि
- भाषा ज्ञान समृद्ध एवं व्यावहारिक
- समस्या समाधान की क्षमता का विकास

परियोजना कार्य निर्धारित करते समय ध्यान देने योग्य बातें

- परियोजना कार्य शिक्षार्थियों में योग्यता आधारित क्षमता को ध्यान में रखकर दिए जाएँ जिससे वे विषय के साथ जुड़ते हुए उसके व्यावहारिक पक्ष को समझ सकें। वर्तमान समय में उसकी प्रासंगिकता पर भी ध्यान दिया जाए।
- सत्र के प्रारम्भ में ही विद्यार्थियों को विषय चुनने का अवसर मिले ताकि उसे शोध, तैयारी और लेखन के लिए पर्याप्त समय मिल सके।
- अध्यापिका/अध्यापक द्वारा कक्षा में परियोजना-कार्य को लेकर विस्तारपूर्वक चर्चा की जाए जिससे विद्यार्थी उसके अर्थ, महत्व व प्रक्रिया को भली-भाँति समझने में सक्षम हो सकें ।
- हिंदी भाषा और साहित्य से जुड़े। विविध विषयों/ विधाओं/ साहित्यकारों/ समकालीन लेखन/ भाषा के तकनीकी पक्ष/ प्रभाव/ अनुप्रयोग/ साहित्य के सामाजिक संदर्भों एवं जीवन-मूल्य संबंधी प्रभावों आदि पर परियोजना कार्य दिए जाने चाहिए।
- शिक्षार्थी को उसकी रुचि के अनुसार विषय का चयन करने के छूट दी जानी चाहिए तथा अध्यापक/ अध्यापिका को मार्गदर्शक के रूप में उसकी सहायता करनी चाहिए।
- परियोजना कार्य करने समय निम्नलिखित आधार को अपनाया जा सकता है-
 - 1. प्रमाण पत्र
 - 2. आभार ज्ञापन
 - 3. विषय-सूची
 - 4. उद्देश्य
 - 5. समस्या का बयान
 - 6. परिकल्पना
 - 7. प्रक्रिया (साक्ष्य संग्रह, साक्ष्य का विश्लेषण)
 - 8. प्रस्तुतीकरण (विषय का विस्तार)
 - 9. अध्ययन का परिणाम
 - 10. अध्ययन की सीमाएँ
 - 11. स्त्रोत
 - १२. अध्यापक टिप्पणी
- परियोजना कार्य में शोध के दौरान सम्मिलित किए गए चित्रों और संदर्भों के विषय में उचित जानकारी दी जानी चाहिए। उनके स्त्रोत को अवश्य अंकित करना चाहिए।
- चित्र, रेखाचित्र, विज्ञापन, ग्राफ, विषय से संबंधित आँकड़े, विषय से संबंधित समाचार की कतरनें एकत्रित के जानी चाहिए।
- प्रमाणस्वरूप सम्मिलित किए गए आँकड़े, चित्र, विज्ञापन आदि के स्त्रोत अंकित करने के साथ-साथ समाचार-पत्र, पत्रिकाओं के नाम एवं दिनांक भी लिखने चाहिए।
- साहित्यकोश, संदर्भ-ग्रंथ, शब्दकोश की मदद लेनी चाहिए।
- परियोजना-कार्य में शिक्षार्थियों के लिए अनेक संभावनाएँ हैं । उनके व्यक्तिगत विचार तथा उनकी कल्पना के विस्तृत संसार को अवश्य सम्मिलित किया जाए।

परियोजना – कार्य के कुछ विषय सुझावात्मक रूप में दिए जा रहे हैं।

भाषा और साहित्य से जुड़े विविध विषयों/ विधाओं/ साहित्यकारों/ समकालीन लेखन के आधार पर

- हिंदी कविता में प्रकृति चित्रण (पाठ जयशंकर प्रसाद) विभिन्न कवियों की कविताओं का तुलनात्मक अध्ययन, भाषा शैली, विशेषताएँ, वर्तमान के साथ प्रासंगिकता इत्यादि।
- भारतीय ग्रामीण का जीवन (पाठ सूरदास की झोपड़ी)
 - > आज़ादी से पहले, बाद में तथा वर्तमान में स्थिति
 - > सुधार की आवश्यकताएँ
 - > अपकी भूमिका/ योगदान/ सुझाव
- संघर्षों की जूझता पहाड़ी जीवन (पाठ आरोहण)
 - > बदलते समय के साथ बदलता जीवन
 - > विश्लेषणात्मक व तथ्यात्मक प्रस्तुति
 - भौगोलिक स्थितियाँ, आपदाएँ
 - > कारण और निवारण
 - > आपकी भूमिका
- समकालीन विषय
 - > कोविड 19 और हम
 - भूमिका क्या है, क्यों है आदि का विवरण
 - > विभिन्न देशों में प्रभाव
 - > भारत के साथ तुलनात्मक अध्ययन
 - » कारण और निवारण
 - > आपकी भूमिका/ योगदान/ सुझाव

उपर्युक्त विषय सुझाव के रूप में प्रस्तुत किए गए हैं। आप दिशानिर्देशों के आधार पर अन्य विषयों का चयन कर सकते है।

परियोजना की शब्दसीमा लगभग 2000 शब्दों की होनी चाहिये।

हिंदी (आधार) (व	होड सं. 302) कक्षा –	-11वीं (2021-22)
$\cdot \cdot $		

परीक्षा भार विभाजन					
विषयवस्तु उपभार कु					
1	अप	ठित गद्यांश (चिंतन क्षमता एवं अभिव्यक्ति कौशल पर बहुविकल्पात्मक प्रश्न पूछे जाएंगे)	1	15	
	अ	दो अपठित गद्यांशों में से कोई एक गद्यांश करना होगा। (450-500 शब्दों के) (1 अंक x 10 प्रश्न)	10	10	
	ब	दो अपठित पद्यांशों में से कोई एक पद्यांश करना होगा। (250-250 शब्दों के) (1 अंक x 5 प्रश्न)	05	05	
2	काय	र्गलयी हिंदी और रचनात्मक लेखन ('अभिव्यक्ति और माध्यम' पुस्तक के आधार पर)	C)5	
	अ	शब्दकोश से संबंधित 5 बहुविकल्पीय प्रश्न (1 अंक x 5 प्रश्न)	05	05	
3	पाठ्	यपुस्तक आरोह भाग – 1 से बहुविकल्पात्मक प्रश्न	1	15	
	अ	पठित काव्यांश पर पाँच बहुविकल्पीय प्रश्न (1 अंक x 05 प्रश्न)	05		
	ब	पठित गद्यांश पर पाँच बहुविकल्पीय प्रश्न। (1 अंक x 05 प्रश्न)	05		
	स	पठित पाठों पर पाँच बहुविकल्पीय प्रश्न। (1 अंक x 05 प्रश्न)	05		
4	अनु	पूरक पाठ्यपुस्तक वितान भाग-1 से बहुविकल्पात्मक प्रश्न	C)5	
	अ	पठित पाठों पर पाँच बहुविकल्पीय प्रश्न। (1 अंक x 05 प्रश्न)	05		
5	5 आंतरिक मूल्याङ्कन			10	
		श्रवण तथा वाचन	10		
कुल अंक				50	

सत्र-1 2021-22 में निम्नलिखित पाठ सम्मिलित किए गए हैं –

पाठ्यपुस्तक - आरोह भाग – 1

गद्य खंड	काव्य खंड
प्रेमचंद - नमक का दारोगा	कबीर - (i) हम तौ एक एक करि जांनां। (ii) संतों देखत जग बौराना।
कृष्णा सोबती - मियाँ नसीरुद्दीन	मीरा - (i) मेरे तो गिरधर गोपाल, दूसरो न कोई (ii) पग घुंघरू बांधी मीरां नाची
शेखर जोशी - गलता लोहा	सुमित्रानंदन पंत - वे आँखें

अभिव्यक्ति और माध्यम	अनुपूरक पाठ्यपुस्तक - वितान भाग – 1
शब्दकोश, संदर्भ ग्रंथों की उपयोगी विधि और परिचय	कुमार गंधर्व - भारतीय गायिकाओं में बेजोड़ : लता मंगेशकर

परीक्षा भार विभाजन द्वितीय सत्र				
	विषयवस्तु उप भार			कुलभार
1	कार	र्यालयी हिंदी और रचनात्मक लेखन		20
	1	दी गई स्थिति / घटना के आधार पर रचनात्मक लेखन (विकल्प सहित) (निबंधात्मक प्रश्न) (5 अंक x 1 प्रश्न)	05	
	2	औपचारिक/अनौपचारिक पत्र (निबंधात्मक प्रश्न) (5 अंक x 1 प्रश्न)	05	
	3	व्यावहारिक लेखन (प्रतिवेदन, प्रेस-विज्ञप्ति, परिपत्र, कार्यसूची/कार्यवृत्त से संबंधित दो लघु उत्तरीय प्रश्न - एक तीन व एक दो अंक का) (विकल्प सहित) (3 अंक x 1 प्रश्न) + (2 अंक x 1 प्रश्न)	05	
	4	जनसंचार माध्यम और पत्रकारिता के विविध आयामों पर से संबंधित दो लघु उत्तरीय प्रश्न-एक तीन व एक दो अंक का) (विकल्प सहित) (3 अंक x 1 प्रश्न) + (2 अंक x 1 प्रश्न)	05	
2	पाट्	व्यपुस्तक आरोह भाग – २ तथा अनुपूरक पाठ्यपुस्तक वितान भाग-2		20
	1	काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 50-60 शब्दों में) (3 अंक x 2 प्रश्न)	6	
	2	गद्य खंड पर आधारित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर (लगभग 50-60 शब्दों में) (3 अंक x 3 प्रश्न)	9	
	3	अनुपूरक पाठ्यपुस्तक वितान भाग-2 के पठित पाठों पर तीन अंक का एक तथा दो अंक का एक प्रश्न पूछा जाएगा (विकल्प सहित) (1 X 3)+(1 X 2)	5	
3		आंतरिक मूल्याङ्कन		10
	परि	योजना कार्य	10	
कुल अंक			50	

सत्र-2 2021-22 में निम्नलिखित पाठ सम्मिलित किए गए हैं –

पाठ्यपुस्तक - आरोह भाग – 1

काव्य खंड	गद्य खंड
भवानी प्रसाद मिश्र - घर की याद	कृष्णनाथ - स्पीति में बारिश
दुष्यंत कुमार - गज़ल	कृश्नचंदर - जामुन का पेड़
निर्मला पुतुल - आओ, मिलकर बचाएँ	जवाहरलाल नेहरू - भारत माता

अभिव्यक्ति और माध्यम

- 1. कार्यालयी लेखन और प्रक्रिया
- 2. स्ववृत्त लेखन और रोजगार संबंधी आवेदन पत्र
- 3. जनसंचार माध्यम
- 4. पत्रकारिता के विविध आयाम

अनुपूरक पाठ्यपुस्तक - वितान भाग – 1

- 1. अनुपम मिश्र राजस्थान की रजत बूँदें
- 2. बेबी हालदार आलो आँधारि

प्रस्तावित पुस्तकें:

- 1. **आरोह, भाग-1,** एन.सी.ई.आर.टी., नई दिल्ली द्वारा प्रकाशित
- 2. वितान भाग–1, एन.सी.ई.आर.टी., नई दिल्ली द्वारा प्रकाशित
- 3. अभिव्यक्ति और माध्यम, एन.सी.ई.आर.टी., नई दिल्ली द्वारा प्रकाशित

परीक्षा भार विभाजन					
विषयवस्तु उपभार कुल					
1	अप	ठित गद्यांश (चिंतन क्षमता एवं अभिव्यक्ति कौशल पर बहुविकल्पात्मक प्रश्न पूछे जाएंगे)	1	.5	
	अ	दो अपठित गद्यांशों में से कोई एक गद्यांश करना होगा। (450-500 शब्दों के) (1 अंक x 10 प्रश्न)	10	10	
	ब	दो अपठित पद्यांशों में से कोई एक पद्यांश करना होगा। (250-250 शब्दों के) (1 अंक x 5 प्रश्न)	05	05	
2	कार	र्गलयी हिंदी और रचनात्मक लेखन ('अभिव्यक्ति और माध्यम' पुस्तक के आधार पर)	C	5	
	अ	अभिव्यक्ति और माध्यम पुस्तक से बहुविकल्पात्मक प्रश्न (1 अंक x5 प्रश्न)	05	05	
3	पाठ्	यपुस्तक आरोह भाग – 2 से बहुविकल्पात्मक प्रश्न	1	15	
	अ	पठित काव्यांश पर पाँच बहुविकल्पीय प्रश्न (1 अंक x 05 प्रश्न)	05		
	ब	पठित गद्यांश पर पाँच बहुविकल्पीय प्रश्न। (1 अंक x 05 प्रश्न)	05		
	स	पठित पाठों पर पाँच बहुविकल्पीय प्रश्न (1 अंक x 05 प्रश्न)	05		
4	अनु	पूरक पाठ्यपुस्तक वितान भाग-2 से बहुविकल्पात्मक प्रश्न	C	5	
	अ	पठित पाठों पर पाँच बहुविकल्पीय प्रश्न (1 अंक x 05 प्रश्न)	05		
5	आंत	ारिक मूल्याङ्कन		10	
		श्रवण तथा वाचन	10		
कुल अंक ह				50	

कक्षा 12वीं हिंदी 'आधार' परीक्षा हेतु पाठ्यक्रम विनिर्देशन 2021-2022 (कोड सं. 302) प्रथम सत्र

सत्र-1 2021-22 में निम्नलिखित पाठ सम्मिलित किए गए हैं –

पाठ्यपुस्तक - आरोह भाग – 2

काव्य खंड	गद्य खंड
1. हरिवंश राय बच्चन - एक गीत	1. महादेवी वर्मा - भक्तिन
2. कुँवर नारायण - कविता के बहाने	1. जैनेन्द्र कुमार - बाज़ार दर्शन
2. रघुवीर सहाय - कैमरे में बंद अपाहिज	1. धर्मवीर भारती - काले मेघा पानी दे
 गजानन माधव मुक्तिबोध - सहर्ष स्वीकारा है 	
अभिव्यक्ति और माध्यम	अनुपूरक पाठ्यपुस्तक - वितान भाग – 2
विभिन्न माध्यमों के लिए लेखन	मनोहर श्याम जोशी - सिल्वर वैडिंग
पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया	आनंद यादव - जूझ

कक्षा 12वीं हिंदी 'आधार' परीक्षा हेतु पाठ्यक्रम विनिर्देशन 2021-2022 (कोड सं. 302) द्वितीय र				। सत्र
		विषयवस्तु	उप भार	कुलभार
1	कार	र्यालयी हिंदी और रचनात्मक लेखन		20
	1	दिए गए तीन नए और अप्रत्याशित विषयों में से किसी एक विषय पर लगभग 150 शब्दों में रचनात्मक लेखन (5 अंक x1 प्रश्न)	05	
	2	औपचारिक विषय से संबंधित पत्र लेखन। (5 अंक x1 प्रश्न) (विकल्प सहित)	05	
	3	कहानी/नाटक की रचना प्रक्रिया पर आधारित दो लघु उत्तरीय प्रश्न (3 अंक x 1 प्रश्न) + (2 अंक x 1 प्रश्न) (विकल्प सहित)	05	
	4	समाचार लेखन/फीचर लेखन/आलेख लेखन पर आधारित दो लघु उत्तरीय प्रश्न (3 अंक x 1 प्रश्न) + (2 अंक x 1 प्रश्न) (विकल्प सहित)	05	
2	पाट्	र्यपुस्तक आरोह भाग – २ तथा अनुपूरक पाठ्यपुस्तक वितान भाग-2		20
	1	काव्य खंड पर आधारित तीन प्रश्नों में से किन्हीं दो प्रश्नों के उत्तर (लगभग 50-60 शब्दों में) (3 अंक x 2 प्रश्न)	6	
	2	गद्य खंड पर आधारित चार प्रश्नों में से किन्हीं तीन प्रश्नों के उत्तर (लगभग 50-60 शब्दों में) (3 अंक x 3 प्रश्न)	9	
	3	अनुपूरक पाठ्यपुस्तक वितान भाग-2 के पठित पाठों पर तीन अंक का एक तथा दो अंक का एक प्रश्न पूछा जाएगा (विकल्प सहित) (1 X 3)+(1 X 2)	5	
3	3 आंतरिक मूल्याङ्कन			10
	परियोजना कार्य 10			
कु	ल अंब	Б		50

सत्र-2 2021-22 में निम्नलिखित पाठ सम्मिलित किए गए हैं –

पाठ्यपुस्तक - आरोह भाग – 2

काव्य खंड	गद्य खंड
शमशेर बहादुर सिंह - उषा	फणीश्वर नाथ रेणु - पहलवान की ढोलक
तुलसीदास - (i) कवितावली (ii) लक्ष्मण मूर्च्छा और	रज़िया सज्जाद ज़हीर - नमक
राम का विलाप	
फ़िराक गोरखपुरी - (i) रुबाइयाँ (ii) गज़ल	बाबा साहेब भीमराव आंबेडकर - (i) श्रम विभाजन
	और जाति - प्रथा (ii) मेरी कल्पना का आदर्श समाज

अभिव्यक्ति और माध्यम

- 1. कैसे करें कहानी का नाट्य रूपांतरण
- 2. कैसे बनता है रेडियो नाटक
- 3. नए और अप्रत्याशित विषयों पर लेखन
- 4. पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया
- 5. विशेष लेखन स्वरुप और प्रकार

अनुपूरक पाठ्यपुस्तक - वितान भाग – 2

- 1. ओम थानवी अतीत में दबे पाँव
- 2. ऐन फ्रैंक डायरी के पन्ने

निर्धारित पुस्तकें:

- 1. आरोह, भाग–2, एन.सी.ई.आर.टी., नई दिल्ली द्वारा प्रकाशित नवीनतम संस्करण
- 2. वितान, भाग–2, एन.सी.ई.आर.टी., नई दिल्ली द्वारा प्रकाशित नवीनतम संस्करण
- 3. अभिव्यक्ति और माध्यम, एन.सी.ई.आर.टी., नई दिल्ली द्वारा प्रकाशित नवीनतम संस्करण

MATHEMATICS (XI-XII) (Code No. 041) Session – 2021-22

The Syllabus in the subject of Mathematics has undergone changes from time to time in accordance with growth of the subject and emerging needs of the society. Senior Secondary stage is a launching stage from where the students go either for higher academic education in Mathematics or for professional courses like Engineering, Physical and Biological science, Commerce or Computer Applications. The present revised syllabus has been designed in accordance with National Curriculum Framework 2005 and as per guidelines given in Focus Group on Teaching of Mathematics 2005 which is to meet the emerging needs of all categories of students. Motivating the topics from real life situations and other subject areas, greater emphasis has been laid on application of various concepts.

Objectives

The broad objectives of teaching Mathematics at senior school stage intend to help the students:

- to acquire knowledge and critical understanding, particularly by way of motivation and visualization, of basic concepts, terms, principles, symbols and mastery of underlying processes and skills.
- to feel the flow of reasons while proving a result or solving a problem.
- to apply the knowledge and skills acquired to solve problems and wherever possible, by more than one method.
- to develop positive attitude to think, analyze and articulate logically.
- to develop interest in the subject by participating in related competitions.
- to acquaint students with different aspects of Mathematics used in daily life.
- to develop an interest in students to study Mathematics as a discipline.
- to develop awareness of the need for national integration, protection of environment, observance of small family norms, removal of social barriers, elimination of gender biases.
- to develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics.

COURSE STRUCTURE CLASS XI (2021-22) TERM - I

One Paper

90 Minutes

Max Marks: 40

No.	Units	Marks
I.	Sets and Functions	11
١١.	Algebra	13
.	Coordinate Geometry	6
IV.	Calculus	4
V.	Statistics and Probability	6
	Total	40
	Internal Assessment	10
	Total	50

*No chapter-wise weightage. Care to be taken to cover all the chapters.

Unit-I: Sets and Functions

1. **Sets**

Sets and their representations. Empty set. Finite and Infinite sets. Equal sets. Subsets. Subsets of a set of real numbers especially intervals (with notations). Power set. Universal set. Venn diagrams. Union and Intersection of sets.

2. Relations & Functions

Ordered pairs. Cartesian product of sets. Number of elements in the Cartesian product of two finite sets. Cartesian product of the set of reals with itself (R x R only).Definition of relation, pictorial diagrams, domain, co-domain and range of a relation. Function as a special type of relation. Pictorial representation of a function, domain, co-domain and range of a function. Real valued functions, domain and range of these functions, constant, identity, polynomial, rational, modulus, signum, exponential, logarithmic and greatest integer functions, with their graphs.

Unit-II: Algebra

1. Complex Numbers and Quadratic Equations

Need for complex numbers, especially $\sqrt{-1}$, to be motivated by inability to solve some of the quardratic equations. Algebraic properties of complex numbers. Argand plane. Statement of Fundamental Theorem of Algebra, solution of quadratic equations (with real coefficients) in the complex number system.

2. Sequence and Series

Sequence and Series. Arithmetic Progression (A. P.). Arithmetic Mean (A.M.) Geometric Progression (G.P.), general term of a G.P., sum of *n* terms of a G.P., infinite G.P. and its sum, geometric mean (G.M.), relation between A.M. and G.M.

Unit-III: Coordinate Geometry

1. Straight Lines

Brief recall of two dimensional geometry from earlier classes. Slope of a line and angle between two lines. Various forms of equations of a line: parallel to axis, point -slope form, slope-intercept form, two-point form, intercept form and normal form. General equation of a line. Distance of a point from a line.

Unit-IV: Calculus

1. Limits

Intuitive idea of limit. Limits of polynomials and rational functions trigonometric, exponential and logarithmic functions

Unit-V: Statistics and Probability

1. Statistics

Measures of Dispersion: Range, mean deviation, variance and standard deviation of ungrouped/grouped data.

INTERNAL ASSESSMENT	10 MARKS
Periodic Test	5 Marks
Mathematics Activities: Activity file record +Term end assess	ment of one activity & Viva
	5 Marks

Note: For activities NCERT Lab Manual may be referred

One Paper

No.	Units	Marks
I.	Sets and Functions (Cont.)	8
II.	Algebra (Cont.)	11
III.	Coordinate Geometry (Cont.)	9
IV.	Calculus (Cont.)	6
V.	Statistics and Probability (Cont.)	6
	Total	40
	Internal Assessment	10
	Total	50

Unit-I: Sets and Functions

1. Trigonometric Functions

Positive and negative angles. Measuring angles in radians and in degrees and conversion from one measure to another. Definition of trigonometric functions with the help of unit circle. Truth of the identity $\sin 2x + \cos 2x = 1$, for all x. Signs of trigonometric functions. Domain and range of trigonometric functions and their graphs. Expressing $\sin (x \pm y)$ and $\cos (x \pm y)$ in terms of $\sin x$, $\sin y$, $\cos x \& \cos y$ and their simple applications. Deducing identities like the following:

 $\tan(x \pm y) = \frac{\tan x \pm \tan y}{1 \mp \tan x \tan y}, \cot(x \pm y) = \frac{\cot x \cot y \mp 1}{\cot y \pm \cot x}$ $\sin\alpha \pm \sin\beta = 2\sin\frac{1}{2}(\alpha \pm \beta)\cos\frac{1}{2}(\alpha \mp \beta)$ $\cos\alpha + \cos\beta = 2\cos\frac{1}{2}(\alpha + \beta)\cos\frac{1}{2}(\alpha - \beta)$ $\cos\alpha - \cos\beta = -2\sin\frac{1}{2}(\alpha + \beta)\sin\frac{1}{2}(\alpha - \beta)$

Identities related to $\sin 2x$, $\cos 2x$, $\tan 2x$, $\sin 3x$, $\cos 3x$ and $\tan 3x$.

Unit-II: Algebra

1. Linear Inequalities

Linear inequalities. Algebraic solutions of linear inequalities in one variable and their representation on the number line. Graphical solution of linear inequalities in two variables. Graphical method of finding a solution of system of linear inequalities in two variables.

2. Permutations and Combinations

Fundamental principle of counting. Factorial *n*. (n!) Permutations and combinations, formula for ${}^{n}P_{r}$ and ${}^{n}C_{r}$, simple applications.

Unit-III: Coordinate Geometry

1. Conic Sections

Sections of a cone: circles, ellipse, parabola, hyperbola. Standard equations and simple properties of parabola, ellipse and hyperbola. Standard equation of a circle.

2. Introduction to Three-dimensional Geometry

Coordinate axes and coordinate planes in three dimensions. Coordinates of a point. Distance between two points and section formula.

Unit-IV: Calculus

1. Derivatives

Derivative introduced as rate of change both as that of distance function and geometrically. Definition of Derivative, relate it to scope of tangent of the curve, derivative of sum, difference, product and quotient of functions. Derivatives of polynomial and trigonometric functions.

Unit-V: Statistics and Probability

1. Probability

Random experiments; outcomes, sample spaces (set representation). Events; occurrence of events, 'not', 'and' and 'or' events, exhaustive events, mutually exclusive events, Probability of an event, probability of 'not', 'and' and 'or' events.

INTERNAL ASSESSMENT	10 MARKS
Periodic Test	5 Marks
Mathematics Activities: Activity file record +Term end assessme	nt of one activity & Viva
	5 Marks

Note: For activities NCERT Lab Manual may be referred

• Please refer the guidelines given under XII Mathematics Syllabus:

CLASS-XII MATHEMATICS (2021-22) TERM - I

One Paper

90 minutes

Max Marks: 40

No.	Units	Marks
I.	Relations and Functions	08
II.	Algebra	10
111.	Calculus	17
V.	Linear Programming	05
	Total	40
	Internal Assessment	10
	Total	50

Unit-I: Relations and Functions

1. Relations and Functions

Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions.

2. Inverse Trigonometric Functions

Definition, range, domain, principal value branch.

Unit-II: Algebra

1. Matrices

Concept, notation, order, equality, types of matrices, zero and identity matrix, transpose of a matrix, symmetric and skew symmetric matrices. Operation on matrices: Addition and multiplication and multiplication with a scalar. Simple properties of addition, multiplication and scalar multiplication. Non-commutativity of multiplication of matrices, Invertible matrices; (Here all matrices will have real entries).

2. Determinants

Determinant of a square matrix (up to 3 x 3 matrices), minors, co-factors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.

Unit-III: Calculus

1. Continuity and Differentiability

Continuity and differentiability, derivative of composite functions, chain rule, derivative of inverse trigonometric functions, derivative of implicit functions. Concept of exponential and logarithmic functions.

Derivatives of logarithmic and exponential functions. Logarithmic differentiation, derivative of functions expressed in parametric forms. Second order derivatives.

2. Applications of Derivatives

Applications of derivatives: increasing/decreasing functions, tangents and normals, maxima and minima (first derivative test motivated geometrically and second derivative test given as a provable tool). Simple problems (that illustrate basic principles and understanding of the subject as well as real-life situations).

Unit-V: Linear Programming

1. Linear Programming

Introduction, related terminology such as constraints, objective function, optimization, different types of linear programming (L.P.) problems. Graphical method of solution for problems in two variables, feasible and infeasible regions (bounded), feasible and infeasible solutions, optimal feasible solutions (up to three non-trivial constraints).

INTERNAL ASSESSMENT	10 MARKS
Periodic Test	5 Marks
Mathematics Activities: Activity file record +Term end asse	essment of one activity & Viva
	5 Marks

Note: For activities NCERT Lab Manual may be referred

TERM - II

One Paper

Max Marks: 40

No.	Units	Marks
III.	Calculus	18
IV.	Vectors and Three-Dimensional Geometry	14
VI.	Probability	8
	Total	40
	Internal Assessment	10
	Total	50

Unit-III: Calculus

1. Integrals

Integration as inverse process of differentiation. Integration of a variety of functions by substitution, by partial fractions and by parts, Evaluation of simple integrals of the following types and problems based on them.

$$\int \frac{dx}{x^2 \pm a^{2,r}} \int \frac{dx}{\sqrt{x^2 \pm a^2}}, \int \frac{dx}{\sqrt{a^2 - x^2}}, \int \frac{dx}{ax^2 + bx + c}, \int \frac{dx}{\sqrt{ax^{2+bx+c}}}$$
$$\int \frac{px + q}{ax^2 + bx + c} dx, \int \frac{px + q}{\sqrt{ax^{2+bx+c}}} dx, \int \sqrt{a^2 \pm x^2} dx, \quad \int \sqrt{x^2 - a^2} dx$$

Fundamental Theorem of Calculus (without proof).Basic properties of definite integrals and evaluation of definite integrals.

2. Applications of the Integrals

Applications in finding the area under simple curves, especially lines, parabolas; area of circles /ellipses (in standard form only) (the region should be clearly identifiable).

3. Differential Equations

Definition, order and degree, general and particular solutions of a differential equation. Solution of differential equations by method of separation of variables, solutions of homogeneous differential equations of first order and first degree of the type: $\frac{dy}{dx} = f(y/x)$. Solutions of linear differential equation of the type:

 $\frac{dy}{dx}$ + py = q, where p and q are functions of x or constant.

Unit-IV: Vectors and Three-Dimensional Geometry

1. Vectors

Vectors and scalars, magnitude and direction of a vector. Direction cosines and direction ratios of a vector. Types of vectors (equal, unit, zero, parallel and collinear vectors), position vector of a point, negative of a vector, components of a vector, addition of vectors, multiplication of a vector by a scalar, position vector of a point dividing a line segment in a given ratio. Definition, Geometrical Interpretation, properties and application of scalar (dot) product of vectors, vector (cross) product of vectors.

2. Three - dimensional Geometry

Direction cosines and direction ratios of a line joining two points. Cartesian equation and vector equation of a line, coplanar and skew lines, shortest distance between two lines. Cartesian and vector equation of a plane. Distance of a point from a plane.

Unit-VI: Probability

1. Probability

Conditional probability, multiplication theorem on probability, independent events, total probability, Bayes' theorem, Random variable and its probability distribution.

INTERNAL ASSESSMENT	10 MARKS
Periodic Test	5 Marks
Mathematics Activities: Activity file record +Term end ass	essment of one activity & Viva
	5 Marks

Note: For activities NCERT Lab Manual may be referred

Assessment of Activity Work:

In first term any 4 activities and in second term any 4 activities shall be performed by the student from the activities given in the NCERT Laboratory Manual for the respective class (XI or XII) which is available on the link : http://www.ncert.nic.in/exemplar/labmanuals.html record of the same may be kept by the student. A term end test on the activity is to be conducted.

The weightage are as under:

- The activities performed by the student in each term and record keeping : 3 marks
- Assessment of the activity performed during the term end test and Viva-voce
 : 2 marks

Prescribed Books:

- 1) Mathematics Textbook for Class XI, NCERT Publications
- 2) Mathematics Part I Textbook for Class XII, NCERT Publication
- 3) Mathematics Part II Textbook for Class XII, NCERT Publication
- 4) Mathematics Exemplar Problem for Class XI, Published by NCERT
- 5) Mathematics Exemplar Problem for Class XII, Published by NCERT
- 6) Mathematics Lab Manual class XI, published by NCERT
- 7) Mathematics Lab Manual class XII, published by NCERT

PHYSICS XI (Code No. 042) COURSE STRUCTURE Class XI (Theory) Term 1

Time: one and half hours.		Max Marks: 35	
		No. of Periods	Marks
Unit–I	Physical World and Measurement	6	20
	Chapter–1: Physical World		
	Chapter–2: Units and Measurements		
Unit-II	Kinematics	16	
	Chapter–3: Motion in a Straight Line		
	Chapter–4: Motion in a Plane		
Unit–III	Laws of Motion	10	
	Chapter–5: Laws of Motion		
Unit–IV	Work, Energy and Power	12	15
	Chapter–6: Work, Energy and Power		
Unit–V	Motion of System of Particles and Rigid	16	
	Body		-
	Chapter–7: System of Particles and		
	Rotational Motion		
Unit-VI	Gravitation	8	
	Chapter–8: Gravitation		
Total		68	35

Syllabus assigned for first term

Unit I: Physical World and Measurement

Chapter-1: Physical World

Physics-scope and excitement; nature of physical laws; Physics, technology and society. (To be discussed as a part of Introduction and integrated with other topics)

Chapter-2: Units and Measurements

Need for measurement: Units of measurement; systems of units; SI units, fundamental and derived units. Length, mass and time measurements; accuracy and precision of measuring instruments; errors in measurement; significant figures.

Dimensions of physical quantities, dimensional analysis and its applications.

Unit II: Kinematics

Chapter-3: Motion in a Straight Line

Elementary concepts of differentiation and integration for describing motion, uniform and nonuniform motion, average speed and instantaneous velocity, uniformly accelerated motion, velocity ⁻ time and position-time graphs.

Relations for uniformly accelerated motion (graphical treatment).

Chapter-4: Motion in a Plane

Scalar and vector quantities; position and displacement vectors, general vectors and their notations; equality of vectors, multiplication of vectors by a real number; addition and subtraction of vectors,

.

16 Periods

6 Periods

relative velocity, Unit vector; resolution of a vector in a plane, rectangular components, Scalar and Vector product of vectors.

Motion in a plane, cases of uniform velocity and uniform acceleration-projectile motion, uniform circular motion.

Unit III: Laws of Motion

Chapter–5: Laws of Motion

Intuitive concept of force, Inertia, Newton's first law of motion; momentum and Newton's second law of motion; impulse; Newton's third law of motion. (Recapitulation only)

Law of conservation of linear momentum and its applications. Equilibrium of concurrent forces, Static and kinetic friction, laws of friction, rolling friction, lubrication.

Dynamics of uniform circular motion: Centripetal force, examples of circular motion (vehicle on a level circular road, vehicle on a banked road).

Unit IV: Work, Energy and Power

Chapter–6: Work, Energy and Power

Work done by a constant force and a variable force; kinetic energy, work-energy theorem, power.

Notion of potential energy, potential energy of a spring, conservative forces: conservation of mechanical energy (kinetic and potential energies); non-conservative forces: motion in a vertical circle; elastic and inelastic collisions in one and two dimensions.

Unit V: Motion of System of Particles and Rigid Body

Chapter–7: System of Particles and Rotational Motion

Centre of mass of a two-particle system, momentum conservation and centre of mass motion. Centre of mass of a rigid body; centre of mass of a uniform rod.

Moment of a force, torque, angular momentum, law of conservation of angular momentum and its applications.

Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions.

Moment of inertia, radius of gyration, values of moments of inertia for simple geometrical objects (no derivation).

Chapter-8: Gravitation

Gravitation

Unit VI:

Universal law of gravitation. Acceleration due to gravity (recapitulation only) and its variation with altitude and depth.

Gravitational potential energy and gravitational potential, escape velocity, orbital velocity of a satellite, Geo-stationary satellites.

8 Periods

12 Periods

10 Periods

nower

16 Periods

Class XI (Theory) Term II

Unit		Periods	Marks
Unit–VII	Properties of Bulk Matter		
	Chapter–9: Mechanical Properties of Solids	22	
	Chapter–10: Mechanical Properties of Fluids	22	
	Chapter–11: Thermal Properties of Matter		
Unit–VIII	Thermodynamics		23
	Chapter–12: Thermodynamics	10	
Unit–IX	Behaviour of Perfect Gases and Kinetic Theory of Gases	08	
	Chapter–13: Kinetic Theory		
Unit–X	Oscillations and Waves	23	12
	Chapter–14: Oscillations		
	Chapter–15: Waves		
	Total Marks	63	35

Time: 2hrs

Syllabus assigned for Term II

Unit VII: Properties of Bulk Matter

22 Periods

Max Marks: 35

Chapter-9: Mechanical Properties of Solids

Stress-strain relationship, Hooke's law, Young's modulus, bulk modulus

Chapter-10: Mechanical Properties of Fluids

Pressure due to a fluid column; Pascal's law and its applications (hydraulic lift and hydraulic brakes), effect of gravity on fluid pressure.

Viscosity, Stokes' law, terminal velocity, streamline and turbulent flow, critical velocity, Bernoulli's theorem and its applications.

Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension ideas to drops, bubbles and capillary rise.

Chapter–11: Thermal Properties of Matter

Heat, temperature, (recapitulation only) thermal expansion; thermal expansion of solids, liquids and gases, anomalous expansion of water; specific heat capacity; Cp, Cv - calorimetry; change of state - latent heat capacity.

Heat transfer-conduction, convection and radiation (recapitulation only), thermal conductivity, qualitative ideas of Blackbody radiation, Wein's displacement Law, Stefan's law, Greenhouse effect.

Unit VIII: Thermodynamics

Chapter-12: Thermodynamics

Thermal equilibrium and definition of temperature (zeroth law of thermodynamics), heat, work and internal energy. First law of thermodynamics, isothermal and adiabatic processes.

Second law of thermodynamics: reversible and irreversible processes

Unit IX: Behaviour of Perfect Gases and Kinetic Theory of Gases

Chapter–13: Kinetic Theory

Equation of state of a perfect gas, work done in compressing a gas.

Kinetic theory of gases - assumptions, concept of pressure. Kinetic interpretation of temperature; rms speed of gas molecules; degrees of freedom, law of equi-partition of energy (statement only) and application to specific heat capacities of gases; concept of mean free path, Avogadro's number.

Unit X: Oscillations and Waves

Chapter–14: Oscillations

Periodic motion - time period, frequency, displacement as a function of time, periodic functions.

Simple harmonic motion (S.H.M) and its equation; phase; oscillations of a loaded spring- restoring force and force constant; energy in S.H.M. Kinetic and potential energies; simple pendulum derivation of expression for its time period. Free, forced and damped oscillations (qualitative ideas only), resonance.

Chapter–15: Waves

Wave motion: Transverse and longitudinal waves, speed of travelling wave, displacement relation for a progressive wave, principle of superposition of waves, reflection of waves, standing waves in strings and organ pipes, Beats

08 Periods

23 Periods

PRACTICALS

Syllabus for TERM I

Total Periods: 16

The record, to be submitted by the students, at the time of their First term examination, has to include:

Record of at least 4 Experiments, to be performed by the students

Record of at least 3 Activities [with 3 each from section A and section B], to be demonstrated by teacher.

Time Allowed: One and half hours

Max. Marks: 30

Two experiments one from each section	8Marks
Practical record (experiment and activities)	2Marks
Viva on experiments, and activities	5 Marks
Total	15 Marks

Syllabus assigned for Practical Term I

Experiments

- 1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Calipers and hence find its volume.
- 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge.

To determine volume of an irregular lamina using screw gauge.

3. To determine radius of curvature of a given spherical surface by a spherometer.

- 4. To determine the mass of two different objects using a beam balance.
- 5. To find the weight of a given body using parallelogram law of vectors.
- 6. Using a simple pendulum, plot its L-T² graph and use it to find the effective length of second's pendulum.

<u>OR</u>

To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result.

7. To study the relationship between force of limiting friction and normal reaction and to find the co- efficient of friction between a block and a horizontal surface.

<u>OR</u>

To find the downward force, along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination θ by plotting graph between

force and sin θ .

Activities

- 1. To make a paper scale of given least count, e.g., 0.2cm, 0.5 cm.
- 2. To determine mass of a given body using a metre scale by principle of moments.
- 3. To plot a graph for a given set of data, with proper choice of scales and error bars.
- 4. To measure the force of limiting friction for rolling of a roller on a horizontal plane.
- 5. To study the variation in range of a projectile with angle of projection.
- 6. To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane).
- 7. To study dissipation of energy of a simple pendulum by plotting a graph between square of amplitude and time.

Class XI Syllabus for TERM II

Total Periods: 16

Max. Marks: 30

The record, to be submitted by the students, at the time of their annual examination, has to include:

Record of at least 4 Experiments, to be performed by the students

Record of at least 3 Activities [with 3 each from section A and section B], to be demonstrated by teacher.

Time Allowed: One and half hours

Two experiments one from each section8MarksPractical record (experiment and activities)2MarksViva on experiments, and activities5 MarksTotal15 Marks

Experiments

1. To determine Young's modulus of elasticity of the material of a given wire.

To find the force constant of a helical spring by plotting a graph between load and extension.

- 2. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V.
- 3. To determine the surface tension of water by capillary rise method.

To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body.

- 4. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.
- 5. To determine specific heat capacity of a given solid by method of mixtures.
- 6. To study the relation between frequency and length of a given wire under constant tension using sonometer.

To study the relation between the length of a given wire and tension for constant frequency using sonometer.

7. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.

Activities

- 1. To observe change of state and plot a cooling curve for molten wax.
- 2. To observe and explain the effect of heating on a bi-metallic strip.
- 3. To note the change in level of liquid in a container on heating and interpret the observations.
- 4. To study the effect of detergent on surface tension of water by observing capillary rise.
- 5. To study the factors affecting the rate of loss of heat of a liquid.
- 6. To study the effect of load on depression of a suitably clamped metre scale loaded at (i) its end (ii) in the middle.
- 7. To observe the decrease in pressure with increase in velocity of a fluid.

Practical Examination for Visually Impaired Students Class XI

Note: Same Evaluation scheme and general guidelines for visually impaired students as given

for Class XII may be followed.

A. Items for Identification/Familiarity of the apparatus for assessment in practicals (All experiments)

Spherical ball, Cylindrical objects, vernier calipers, beaker, calorimeter, Screw gauge, wire, Beam balance, spring balance, weight box, gram and milligram weights, forceps, Parallelogram law of vectors apparatus, pulleys and pans used in the same 'weights' used, Bob and string used in a simple pendulum, meter scale, split cork, suspension arrangement, stop clock/stop watch, Helical spring, suspension arrangement used, weights, arrangement used for measuring extension, Sonometer, Wedges, pan and pulley used in it, 'weights' Tuning Fork, Meter scale, Beam balance, Weight box, gram and milligram weights, forceps, Resonance Tube, Tuning Fork, Meter scale, Flask/Beaker used for adding water.

B. List of Practical's

- 1. To measure diameter of a small spherical/cylindrical body using vernier calipers.
- 2. To measure the internal diameter and depth of a given beaker/calorimeter using vernier calipers and hence find its volume.
- 3. To measure diameter of given wire using screw gauge.
- 4. To measure thickness of a given sheet using screw gauge.
- 5. To determine the mass of a given object using a beam balance.
- 6. To find the weight of given body using the parallelogram law of vectors.
- 7. Using a simple pendulum plot L-T and L-T² graphs. Hence find the effective length of second's pendulum using appropriate length values.
- 8. To find the force constant of given helical spring by plotting a graph between load and extension.
- 9. (i) To study the relation between frequency and length of a given wire under constant tension using a sonometer.
 (ii) To study the relation between the length of a given wire and tension, for constant frequency, using a sonometer.
- 10. To find the speed of sound in air, at room temperature, using a resonance tube, by observing the two resonance positions.

Note: The above practicals may be carried out in an experiential manner rather than recording observations.

Prescribed Books:

- 1. Physics Part-I, Textbook for Class XI, Published by NCERT
- 2. Physics Part-II, Textbook for Class XI, Published by NCERT
- 3. Laboratory Manual of Physics, Class XI Published by NCERT
- 4. The list of other related books and manuals brought out by NCERT

(consider multimedia also).

Physics Class XII (Code N. 042) (2020-21) Syllabus assigned for Term I (Theory)

Time: 90 Minutes

Max Marks: 35

		No. of Periods	Marks
Unit–I	Electrostatics		
	Chapter–1: Electric Charges and Fields		
	Chapter–2: Electrostatic Potential and Capacitance	23	17
Unit-II	Current Electricity		
	Chapter–3: Current Electricity	15	
Unit-III	Magnetic Effects of Current and Magnetism		
	Chapter–4: Moving Charges and Magnetism	16	
	Chapter–5: Magnetism and Matter		18
Unit-IV	Electromagnetic Induction and Alternating Currents	19	
	Chapter–6: Electromagnetic Induction		
	Chapter 7: Alternating currents		
Total		73	35

Unit I: Electrostatics

23 Periods

Chapter-1: Electric Charges and Fields

Electric Charges; Conservation of charge, Coulomb's law-force between two-point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet

Chapter-2: Electrostatic Potential and Capacitance

Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field. Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarisation, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor.

Unit II: Current Electricity

15 Periods

Chapter–3: Current Electricity

Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, electrical resistance, V-I characteristics (linear and nonlinear), electrical energy and power, electrical resistivity and conductivity; temperature dependence of resistance. Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's laws and simple applications, Wheatstone bridge, metre bridge(**qualitative ideas only**). Potentiometer - principle and its applications to measure potential difference and for comparing EMF of two cells; measurement of internal resistance of a cell (**qualitative ideas only**)

Unit III: Magnetic Effects of Current and Magnetism 16 Periods

Chapter-4: Moving Charges and Magnetism

Concept of magnetic field, Oersted's experiment. Biot - Savart law and its application to current carrying circular loop. Ampere's law and its applications to infinitely long straight wire. Straight and toroidal solenoids (only qualitative treatment), force on a moving charge in uniform magnetic and electric fields. Force on a current-carrying conductor in a uniform magnetic field, force between two parallel current-carrying conductors-definition of ampere, torque experienced by a current loop in uniform magnetic field; moving coil galvanometer-its current sensitivity and conversion to ammeter and voltmeter.

Chapter–5: Magnetism and Matter

Current loop as a magnetic dipole and its magnetic dipole moment, magnetic dipole moment of a revolving electron, bar magnet as an equivalent solenoid, magnetic field lines; earth's magnetic field and magnetic elements.

Unit IV: Electromagnetic Induction and Alternating Currents 19 Periods

Chapter–6: Electromagnetic Induction

Electromagnetic induction; Faraday's laws, induced EMF and current; Lenz's Law, Eddy currents. Self and mutual induction.

Chapter–7: Alternating Current

Alternating currents, peak and RMS value of alternating current/voltage; reactance and impedance; LC oscillations (qualitative treatment only), LCR series circuit, resonance; power in AC circuits. AC generator and transformer.

Syllabus assigned for Practical for Term I

Total Periods:16

First term practical examination will be organised by schools as per the directions of CBSE. The record to be submitted by the students at the time of first term examination has to include a record of at least 4 Experiments and 3 Activities to be demonstrated by teacher.

Time Allowed: one and half hours	Max. Marks: 15	
Two experiments to be performed by students at time of examination	8 marks	
Practical record [experiments and activities]	2 marks	
Viva on experiments, and activities	5 marks	
Total	15 marks	

Experiments assigned for Term I

- 1. To determine resistivity of two / three wires by plotting a graph between potential difference versus current.
- 2. To find resistance of a given wire / standard resistor using metre bridge.

<u>OR</u>

To verify the laws of combination (series) of resistances using a metre bridge.

To verify the laws of combination (parallel) of resistances using a metre bridge.

3. To compare the EMF of two given primary cells using potentiometer.

<u>OR</u>

To determine the internal resistance of given primary cell using potentiometer.

- 4. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
- 5. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.

To convert the given galvanometer (of known resistance and figure of merit) into an ammeter of desired range and to verify the same.

6. To find the frequency of AC mains with a sonometer.

Activities assigned for Term I

- 1. To measure the resistance and impedance of an inductor with or without iron core.
- 2. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.
- 3. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
- 4. To assemble the components of a given electrical circuit.
- 5. To study the variation in potential drop with length of a wire for a steady current.
- 6. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

Class XII Syllabus assigned for Term II (Theory)

Time: 2 Hours

Max Marks: 35

		No of Periods	Marks
Unit–V	Electromagnetic Waves		
	Chapter–8: Electromagnetic Waves	02	
Unit–VI	Optics		17
	Chapter–9: Ray Optics and Optical Instruments	18	
	Chapter–10: Wave Optics		
Unit–VII	Dual Nature of Radiation and Matter		
	Chapter–11: Dual Nature of Radiation and Matter	07	
Unit–VIII	Atoms and Nuclei		11
	Chapter–12: Atoms	11	
	Chapter–13: Nuclei		
Unit–IX	Electronic Devices		
	Chapter–14: Semiconductor -Electronics: Materials,		7
	Devices and Simple Circuits	07	
	Total	45	35

Unit V: Electromagnetic waves

2 Periods

Chapter-8: Electromagnetic Waves

Electromagnetic waves, their characteristics, their Transverse nature (qualitative ideas only).

Electromagnetic spectrum (radio waves, microwaves, infrared, visible, ultraviolet, X-rays, gamma rays) including elementary facts about their uses.

Unit VI: Optics

Chapter–9: Ray Optics and Optical Instruments

Ray Optics: Refraction of light, total internal reflection and its applications, optical fibers, refraction at spherical surfaces, lenses, thin lens formula, lensmaker's formula, magnification, power of a lens, combination of thin lenses in contact, refraction of light through a prism.

Optical instruments: Microscopes and astronomical telescopes (reflecting and refracting) and their magnifying powers.

Chapter–10: Wave Optics

Wave optics: Wave front and Huygen's principle, reflection and refraction of plane wave at a plane surface using wave fronts. Proof of laws of reflection and refraction using Huygen's principle. Interference, Young's double slit experiment and expression for fringe width, coherent sources and

18Periods

sustained interference of light, diffraction due to a single slit, width of central maximum

Unit VII: Dual Nature of Radiation and Matter

Chapter–11: Dual Nature of Radiation and Matter

Dual nature of radiation, Photoelectric effect, Hertz and Lenard's observations; Einstein's photoelectric equation-particle nature of light.

Experimental study of photoelectric effect

Matter waves-wave nature of particles, de-Broglie relation

Unit VIII: Atoms and Nuclei

Chapter–12: Atoms

Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels, hydrogen spectrum.

Chapter–13: Nuclei Composition and size of nucleus Nuclear force Mass-energy relation, mass defect, nuclear fission, nuclear fusion.

Unit IX: Electronic Devices

Chapter–14: Semiconductor Electronics: Materials, Devices and Simple Circuits Energy bands in conductors, semiconductors and insulators (qualitative ideas only) Semiconductor diode - I-V characteristics in forward and reverse bias, diode as a rectifier; Special purpose p-n junction diodes: LED, photodiode, solar cell.

Syllabus assigned for Practical for Term II

Total Periods: 16

Max. Marks: 15

The second term practical examination will be organised by schools as per the directions of CBSE and viva will be taken by both internal and external observers. The record to be submitted by the students at the time of second term examination has to include a record of at least 4 Experiments and 3 Activities to be demonstrated by teacher.

Evaluation Scheme

Time Allowed: one and half hours

Two experiments to be performed by students at time of examination	8 marks
Practical record [experiments and activities]	2 marks
Viva on experiments, and activities	5 marks
Total	15 marks

11Periods

7 Periods

7 Periods

Experiments assigned for Term-II

- 1. To find the focal length of a convex lens by plotting graphs between u and v or between 1/u and1/v.
- 2. To find the focal length of a convex mirror, using a convex lens.

OR

To find the focal length of a concave lens, using a convex lens.

- 3. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation.
- 4. To determine refractive index of a glass slab using a travelling microscope.
- 5. To find refractive index of a liquid by using convex lens and plane mirror.
- 6. To draw the I-V characteristic curve for a p-n junction diode in forward bias and reverse bias.

Activities assigned for Term-II

- 1. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items.
- 2. Use of multimeter to see the unidirectional flow of current in case of a diode and an LED and check whether a given electronic component (e.g., diode) is in working order.
- 3. To study effect of intensity of light (by varying distance of the source) on an LDR.
- 4. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
- 5. To observe polarization of light using two Polaroids.
- 6. To observe diffraction of light due to a thin slit.
- To study the nature and size of the image formed by a (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror).
- 8. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.

Practical Examination for Visually Impaired Students of XII Evaluation Scheme (Term I and Term II)

Time Allowed: one hour

Max. Marks:15

Identification/Familiarity with the apparatus	3 marks
Written test (based on given/prescribed practicals)	5 marks
Practical Record	2 marks
Viva	5 marks
Total	15 marks

General Guidelines

- The practical examination will be of one hour duration.
- A separate list of ten experiments is included here.
- The written examination in practicals for these students will be conducted at the time of practical examination of all other students.
- The written test will be of 10 minutes duration.
- The question paper given to the students should be legibly typed. It should contain a total of 8 practical skill based very short answer type questions. A student would be required to answer any 5 questions.
- A writer may be allowed to such students as per CBSE examination rules.
- All questions included in the question papers should be related to the listed practicals. Every question should require about two minutes to be answered.
- These students are also required to maintain a practical file. A student is expected to record at least five of the listed experiments as per the specific instructions for each subject. These practicals should be duly checked and signed by the internal examiner.
- The format of writing any experiment in the practical file should include aim, apparatus required, simple theory, procedure, related practical skills, precautions etc.
- Questions may be generated jointly by the external/internal examiners and used for assessment.
- The viva questions may include questions based on basic theory/principle/concept, apparatus/ materials/chemicals required, procedure, precautions, sources of error

Class XII

A. Items for Identification/ familiarity with the apparatus for assessment in practicals (All experiments)

Meter scale, general shape of the voltmeter/ammeter, battery/power supply, connecting wires, standard resistances, connecting wires, voltmeter/ammeter, meter bridge, screw gauge, jockey Galvanometer, Resistance Box, standard Resistance, connecting wires, Potentiometer, jockey, Galvanometer, Lechlanche cell, Daniell cell [simple distinction between the two vis-à-vis their outer (glass and copper) containers], rheostat connecting wires, Galvanometer, resistance box, Plug-in and tapping keys, connecting wires battery/power supply, Diode, Resistor (Wire-wound or carbon ones with two wires connected to two ends), capacitors (one or two types), Inductors, Simple electric/electronic bell, battery/power supply, Plug-in and tapping keys, concave lens, convex mirror, concave mirror, Core/hollow wooden cylinder, insulated wire, ferromagnetic rod, Transformer core, insulated wire.
Experiments assigned for Term-I

- 1. To determine the resistance per cm of a given wire by plotting a graph between voltage and current.
- 2. To verify the laws of combination (series/parallel combination) of resistances by Ohm's law.
- 3. To find the resistance of a given wire / standard resistor using a meter bridge.
- 4. To compare the e.m.f of two given primary cells using a potentiometer.
- **5.** To determine the resistance of a galvanometer by half deflection method.

Experiments assigned for Term-II

1 To identify a resistor, capacitor, inductor and diode from a mixed collection of such items.

- 2 To observe the difference between
 - i. a convex lens and a concave lens
 - ii. a convex mirror and a concave mirror and to estimate the likely difference between the power of two given convex /concave lenses.
- 3 To design an inductor coil and to know the effect of
 - i. change in the number of turns
 - ii. Introduction of ferromagnetic material as its core material on the inductance of the coil.

4 To design a (i) step up (ii) step down transformer on a given core and know the relation between its input and output voltages.

Note: The above practicals may be carried out in an experiential manner rather than recording observations.

Prescribed Books:

- 1. Physics, Class XII, Part -I and II, Published by NCERT.
- 2. Laboratory Manual of Physics for class XII Published by NCERT.
- 3. The list of other related books and manuals brought out by NCERT (consider multimedia also).

CHEMISTRY (043)

S	UNIT	Periods	Marks
1	Some Basic Concepts of Chemistry	10	11
2	Structure of Atom	12	
3	Classification of Elements and Periodicity in Properties	6	4
4	Chemical Bonding and Molecular Structure	14	6
5	Redox Reactions	4	
6	Hydrogen	4	5
7	Organic Chemistry: Some basic Principles and Techniques	10	9
	TOTAL	60	35

SYLLABUS FOR SESSION 2021-22 CLASS XI Term-I

Some Basic Concepts of Chemistry: General Introduction: Importance and scope of Chemistry. Atomic and molecular masses, mole concept and molar mass, percentage composition, empirical and molecular formula, chemical reactions, stoichiometry and calculations based on stoichiometry.

Structure of Atom: Bohr's model and its limitations, concept of shells and subshells, dual nature of matter and light, de Broglie's relationship, Heisenberg uncertainty principle, concept of orbitals, quantum numbers, shapes of s, p and d orbitals, rules for filling electrons in orbitals - Aufbau principle, Pauli's exclusion principle and Hund's rule, electronic configuration of atoms, stability of half-filled and completely filled orbitals

Classification of Elements and Periodicity in Properties: Modern periodic law and the present form of periodic table, periodic trends in properties of elements -atomic radii, ionic radii, inert gas radii, lonization enthalpy, electron gain enthalpy, electronegativity, valency. Nomenclature of elements with atomic number greater than 100.

Chemical Bonding and Molecular Structure:

Valence electrons, ionic bond, covalent bond, bond parameters, Lewis structure, polar character of covalent bond, covalent character of ionic bond, valence bond theory, resonance, geometry of covalent molecules, VSEPR theory, concept of hybridization, involving s, p and d orbitals and shapes of some simple molecules, molecular orbital theory of homonuclear diatomic molecules(qualitative idea only), Hydrogen bond.

Redox Reactions:

Concept of oxidation and reduction, redox reactions, oxidation number, balancing redox reactions, in terms of loss and gain of electrons and change in oxidation number.

Hydrogen: Position of hydrogen in periodic table, occurrence, isotopes, hydrides-ionic covalent and interstitial; physical and chemical properties of water, heavy water, hydrogen as a fuel

Organic Chemistry: Some basic Principles and Techniques: General introduction, classification and IUPAC nomenclature of organic compounds. Electronic displacements in a covalent bond: inductive effect, electromeric effect, resonance and hyper conjugation. Homolytic and heterolytic fission of a covalent bond: free radicals, carbocations, carbanions, electrophiles and nucleophiles, types of organic reactions.

PRACTICALS

Term I: A **15-mark Practical** would be conducted under the supervision of subject teacher. This would contribute to the overall practical marks for the subject.

OR

In case the situation of lockdown continues until Nov-Dec 2021, a *Practical Based Assessment (penpaper) of 15 marks* would be conducted at the end of Term I.

Term-I Evaluation Scheme

S. No	Practical	Marks	
1.	Volumetric Analysis	8	
2.	Content Based experiment	2	
3.	Class record and viva(Internal Examiner)	5	
	TOTAL 15		

Micro-chemical methods are available for several of the practical experiments, wherever possible such techniques should be used.

A. Basic Laboratory Techniques

- 1. Cutting glass tube and glass rod
- 2. Bending a glass tube
- 3. Drawing out a glass jet
- 4. Boring a cork

B. Characterization of Chemical Substances (2 Marks)

- 1. Determination of melting point of an organic compound.
- 2. Determination of boiling point of an organic compound.

C. Quantitative Estimation (8 marks)

- i. Using a mechanical balance/electronic balance.
- ii. Preparation of standard solution of Oxalic acid.
- iii. Determination of strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid.
- iv. Preparation of standard solution of Sodium carbonate.
- v. Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonate solution.

S.No	UNIT	Periods	Marks
1	States of Matter: Gases and Liquids	9	15
2	Chemical Thermodynamics	14	
3	Equilibrium	12	
4	s -Block Elements	5	11
5	Some p -Block Elements	9	
6	Hydrocarbons	10	9
	TOTAL	59	35

SYLLABUS FOR SESSION 2021-22 CLASS XI Term-II

States of Matter: Gases and Liquids: Three states of matter, intermolecular interactions, types of bonding, melting and boiling points, role of gas laws in elucidating the concept of the molecule, Boyle's law, Charles law, Gay Lussac's law, Avogadro's law, ideal behaviour, empirical derivation of gas equation, Avogadro's number, ideal gas equation and deviation from ideal behaviour.

Chemical Thermodynamics: Concepts of System and types of systems, surroundings, work, heat, energy, extensive and intensive properties, state functions.

First law of thermodynamics -internal energy and enthalpy, measurement of DU and DH, Hess's law of constant heat summation, enthalpy of bond dissociation, combustion, formation, atomization, sublimation, phase transition, ionization, solution and dilution. Second law of Thermodynamics (brief introduction)

Introduction of entropy as a state function, Gibb's energy change for spontaneous and non-spontaneous processes.

Third law of thermodynamics (brief introduction).

Equilibrium: Equilibrium in physical and chemical processes, dynamic nature of equilibrium, law of mass action, equilibrium constant, factors affecting equilibrium - Le Chatelier's principle, ionic equilibrium- ionization of acids and bases, strong and weak electrolytes, degree of ionization, ionization of poly basic acids, acid strength, concept of pH, buffer solution, solubility product, common ion effect (with illustrative examples).

s -Block Elements: Group 1 and Group 2 Elements -General introduction, electronic configuration, occurrence, anomalous properties of the first element of each group, diagonal relationship, trends in the variation of properties (such as ionization enthalpy, atomic and ionic radii), trends in chemical reactivity with oxygen, water, hydrogen and halogens, uses.

Some p -Block Elements: General Introduction to p -Block Elements

Group 13 Elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous properties of first element of the group, Boron - physical and chemical properties.

Group 14 Elements: General introduction, electronic configuration, occurrence, variation of properties, oxidation states, trends in chemical reactivity, anomalous behaviour of first elements. Carbon-catenation, allotropic forms, physical and chemical properties.

Hydrocarbons: Classification of Hydrocarbons Aliphatic Hydrocarbons:

Alkanes - Nomenclature, isomerism, conformation (ethane only), physical properties, chemical reactions.

Alkenes - Nomenclature, structure of double bond (ethene), geometrical isomerism, physical properties, methods of preparation, chemical reactions: addition of hydrogen, halogen, water, hydrogen halides (Markovnikov's addition and peroxide effect), ozonolysis, oxidation, mechanism of electrophilic addition.

Alkynes - Nomenclature, structure of triple bond (ethyne), physical properties, methods of preparation, chemical reactions: acidic character of alkynes, addition reaction of - hydrogen, halogens, hydrogen halides and water.

Aromatic Hydrocarbons: Introduction, IUPAC nomenclature, benzene: resonance, aromaticity, chemical properties: mechanism of electrophilic substitution. Nitration, sulphonation, halogenation, Friedel Craft's alkylation and acylation, directive influence of functional group in monosubstituted benzene. Carcinogenicity and toxicity.

PRACTICALS

Term II: At the end of Term II, **a 15-mark Practical** would be conducted under the supervision of subject teacher. This would contribute to the overall practical marks for the subject. **OR**

In case the situation of lockdown continues beyond December 2021, a *Practical Based Assessment* (*pen-paper*) of 10 marks and Viva 5 marks would be conducted at the end of Term II by the subject teacher. This would contribute to the overall practical marks for the subject.

TERM-II Evaluation Scheme

S. No	Practical	Marks
1.	Salt Analysis	8
2.	Content Based Experiment	2
3	Project Work and Viva(Internal)	5
	TOTAL	15

A. Qualitative Analysis(Marks 8)

- a. Determination of one anion and one cation in a given salt Cations- Pb²⁺, Cu²⁺, As³⁺, Al³⁺, Fe³⁺, Mn²⁺, Ni²⁺, Zn²⁺, Co²⁺, Ca²⁺, Sr²⁺, Ba²⁺, Mg²⁺, NH₄⁺ Anions – $(CO_3)^{2^-}$, S²⁻, NO₂⁻, SO₃⁻²⁻, SO₄²⁻, NO₃⁻, Cl⁻, Br⁻, l⁻, PO₄⁻³⁻, C₂O₄⁻²⁻, CH₃COO⁻ (Note: Insoluble salts excluded)
- b. Detection of -Nitrogen, Sulphur, Chlorine in organic compounds.
- B. Crystallization of impure sample of any one of the following: Alum, Copper Sulphate, Benzoic Acid. (Marks 2)

PROJECTS scientific investigations involving laboratory testing and collecting information from other sources.

Guidelines on Syllabus for Visually Handicapped students.

Schools are expected to rationalise and divide the syllabus of practicums for visually handicapped students into two halves on the basis of collective guidelines given for the same in the complete syllabus and as per the convenience of their students. This flexibility is given in view of the special

condition of visually handicapped students .They will, however, be assessed on 15 marks in practical examination in both the terms as rest of their peers.

S.No	UNIT	Periods	MARKS
1	Solid State	8	10
2	Solutions	8	
3	p-Block Elements	7	10
4	Haloalkanes and Haloarenes	9	15
5	Alcohols, Phenols and Ethers	9	
6	Biomolecules	8	
	TOTAL	49	35

SYLLABUS FOR SESSION 2021-22 CLASS XII Term-I

Solid State: Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous and crystalline solids (elementary idea). Unit cell in two dimensional and three dimensional lattices, calculation of density of unit cell, packing in solids, packing efficiency, voids, number of atoms per unit cell in a cubic unit cell, point defects.

Solutions: Types of solutions, expression of concentration of solutions of solids in liquids, solubility of gases in liquids, solid solutions, Raoult's law, colligative properties - relative lowering of vapour pressure, elevation of boiling point, depression of freezing point, osmotic pressure, determination of molecular masses using colligative properties.

p Block Elements: Group -15 Elements: General introduction, electronic configuration, occurrence, oxidation states, trends in physical and chemical properties; Nitrogen preparation properties and uses; compounds of Nitrogen: preparation and properties of Ammonia and Nitric Acid.

Group 16 Elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties, dioxygen: preparation, properties and uses, classification of Oxides, Ozone, Sulphur -allotropic forms; compounds of Sulphur: preparation properties and uses of Sulphur-dioxide, Sulphuric Acid: properties and uses; Oxoacids of Sulphur (Structures only).

Group 17 Elements: General introduction, electronic configuration, oxidation states, occurrence, trends in physical and chemical properties; compounds of halogens, Preparation, properties and uses of Chlorine and Hydrochloric acid, interhalogen compounds, Oxoacids of halogens (structures only).

Group 18 Elements: General introduction, electronic configuration, occurrence, trends in physical and chemical properties, uses.

Haloalkanes and Haloarenes: Haloalkanes: Nomenclature, nature of C–X bond, physical and chemical properties, optical rotation mechanism of substitution reactions.

Haloarenes: Nature of C–X bond, substitution reactions (Directive influence of halogen in monosubstituted compounds only).

Alcohols, Phenols and Ethers: Alcohols: Nomenclature, methods of preparation, physical and chemical properties (of primary alcohols only), identification of primary, secondary and tertiary alcohols, mechanism of dehydration.

Phenols: Nomenclature, methods of preparation, physical and chemical properties, acidic nature of phenol, electrophillic substitution reactions, uses of phenols.

Ethers: Nomenclature, methods of preparation, physical and chemical properties, uses.

Biomolecules: Carbohydrates - Classification (aldoses and ketoses), monosaccahrides (glucose and fructose), D-L configuration Proteins -Elementary idea of - amino acids, peptide bond, polypeptides, proteins, structure of proteins - primary, secondary, tertiary structure and quaternary structures (qualitative idea only), denaturation of proteins. Nucleic Acids: DNA and RNA

PRACTICALS

Term I: A 15-mark Practical would be conducted under the supervision of subject teacher/ internal examiner. This would contribute to the overall practical marks for the subject. **OR**

In case the situation of lockdown continues until Nov-Dec 2021, a *Practical Based Assessment (pen-paper) of 15 marks* would be conducted at the end of Term I at the school level and marks would be submitted by the schools to the Board. This would contribute to the overall practical marks for the subject.

Term-I Evaluation Scheme

S. No	Practical	Marks
1.	Volumetric Analysis	4
2.	Salt Analysis	4
3.	Content Based experiment	2
4.	Class record and viva(Internal Examiner)	5
	TOTAL	15

(1) Volumetric analysis (4 marks)

Determination of concentration/ molarity of KMnO₄ solution by titrating it against a standard solution of:

- i. Oxalic acid,
- ii. Ferrous Ammonium Sulphate

(Students will be required to prepare standard solutions by weighing themselves).

(2) Salt analysis (Qualitative analysis) (4 marks)

Determination of one cation and one anion in a given salt.

Cations- Pb²⁺, Cu²⁺, As³⁺, Al³⁺, Fe³⁺, Mn²⁺, Ni²⁺, Zn²⁺, Co²⁺, Ca²⁺, Sr²⁺, Ba²⁺, Mg²⁺, NH₄⁺ Anions – (CO₃)²⁻, S²⁻, NO₂⁻, SO₃²⁻, SO₄²⁻, NO₃⁻, Cl⁻, Br⁻, l⁻, PO₄⁻³⁻, C₂O₄⁻²⁻, CH₃COO⁻ (Note: Insoluble salts excluded)

(3) Content Based Experiments (2 marks)

A. Chromatography

- i. Separation of pigments from extracts of leaves and flowers by paper chromatography and determination of Rf values.
- ii. Separation of constituents present in an inorganic mixture containing two cations only (constituents having large difference in Rf values to be provided).
- B. Characteristic tests of carbohydrates, fats and proteins in pure samples and their detection in given foodstuffs.

S.No	UNIT	No. of Periods	MARKS
1	Electrochemistry	7	
2	Chemical Kinetics	5	
3	Surface Chemistry	5	13
4	d-and f-Block Elements	7	
5	Coordination Compounds	8	9
6	Aldehydes, Ketones and Carboxylic Acids	10	
7	Amines	7	13
	TOTAL	49	35

SYLLABUS FOR SESSION 2021-22 CLASS XII Term-II

Electrochemistry: Redox reactions, EMF of a cell, standard electrode potential, Nernst equation and its application to chemical cells, Relation between Gibbs energy change and EMF of a cell, conductance in electrolytic solutions, specific and molar conductivity, variations of conductivity with concentration, Kohlrausch's Law, electrolysis.

Chemical Kinetics: Rate of a reaction (Average and instantaneous), factors affecting rate of reaction: concentration, temperature, catalyst; order and molecularity of a reaction, rate law and specific rate constant, integrated rate equations and half-life (only for zero and first order reactions).

Surface Chemistry: Adsorption - physisorption and chemisorption, factors affecting adsorption of gases on solids, colloidal state: distinction between true solutions, colloids and suspension; lyophilic, lyophobic, multi-molecular and macromolecular colloids; properties of colloids; Tyndall effect, Brownian movement, electrophoresis, coagulation.

d-and f-Block Elements: General introduction, electronic configuration, occurrence and characteristics of transition metals, general trends in properties of the first row transition metals – metallic character, ionization enthalpy, oxidation states, ionic radii, colour, catalytic property, magnetic properties, interstitial compounds, alloy formation.

Lanthanoids - Electronic configuration, oxidation states and lanthanoid contraction and its consequences.

Coordination Compounds: Coordination compounds - Introduction, ligands, coordination number, colour, magnetic properties and shapes, IUPAC nomenclature of mononuclear coordination compounds. Bonding, Werner's theory, VBT, and CFT.

Aldehydes, Ketones and Carboxylic Acids: Aldehydes and Ketones: Nomenclature, nature of carbonyl group, methods of preparation, physical and chemical properties, mechanism of nucleophilic addition, reactivity of alpha hydrogen in aldehydes, uses.

Carboxylic Acids: Nomenclature, acidic nature, methods of preparation, physical and chemical properties; uses.

Amines:

Amines: Nomenclature, classification, structure, methods of preparation, physical and chemical properties, uses, identification of primary, secondary and tertiary amines.

PRACTICALS

Term II: At the end of Term II, **a 15-mark Practical** would be conducted under the supervision of Board appointed external examiners. This would contribute to the overall practical marks for the subject.

OR

In case the situation of lockdown continues beyond December 2021, a *Practical Based Assessment* (*pen-paper*) of 10 marks and Viva 5 marks would be conducted at the end of Term II jointly by the external and internal examiners and marks would be submitted by the schools to the Board. This would contribute to the overall practical marks for the subject.

TERM-II Evaluation Scheme

S. No	Practical	Marks
1.	Volumetric Analysis	4
2.	Salt Analysis	4
3	Content Based Experiment	2
4	Project Work and Viva(Internal and External Both)	5
	TOTAL	15

1) Volumetric analysis (4 marks)

Determination of concentration/ molarity of KMnO₄ solution by titrating it against a standard solution of:

- i. Oxalic acid,
- ii. Ferrous Ammonium Sulphate

(Students will be required to prepare standard solutions by weighing themselves).

2) Salt analysis (Qualitative analysis) (4 marks)

Determination of one cation and one anion in a given salt.

Cations- Pb²⁺, Cu²⁺, As³⁺, Al³⁺, Fe³⁺, Mn²⁺, Ni²⁺, Zn²⁺, Co²⁺, Ca²⁺, Sr²⁺, Ba²⁺, Mg²⁺, NH₄⁺

Anions – $(CO_3)^{2^-}$, S^{2^-} , NO_2^{-} , $SO_3^{2^-}$, $SO_4^{2^-}$, NO_3^{-} , Cl^- , Br^- , l^- , $PO_4^{-3^-}$, $C_2O_4^{-2^-}$, CH_3COO^- (Note: Insoluble salts excluded)

3) Content based experiment

- A. Preparation of Inorganic Compounds
 Preparation of double salt of Ferrous Ammonium Sulphate or Potash Alum.
 Preparation of Potassium Ferric Oxalate.
- B. Tests for the functional groups present in organic compounds: Unsaturation, alcoholic, phenolic, aldehydic, ketonic, carboxylic and amino (Primary) groups.

Guidelines on Syllabus for Visually Handicapped students.

Schools are expected to rationalise and divide the syllabus of practicums for visually handicapped students into two halves on the basis of collective guidelines given for the same in the complete syllabus and as per the convenience of their students. This flexibility is given in view of the special condition of visually handicapped students .They will, however, be assessed on 15 marks in practical examination in both the terms as rest of their peers.

General Instructions for Investigatory Project

In Chemistry the students of class XI and XII are supposed to conduct a scientific investigations involving laboratory testing and collecting information from other sources. This project is assessed as a part of practical examination at the end of year.

At the outset, teachers must map appropriate competencies or learning outcomes with real world problems (projects) that are age appropriate for their students. Students in consultation with their teacher finally determine the project question for them depending upon their interest and proclivity. A project should ideally arise out of the need felt by the student. Students explore their areas of interest and narrow down their ideas to a testable hypothesis or problem question.

For example: Abdul waits for summers as his favourite fruit watermelon is available in plenty. This year he noticed that every time he bought a watermelon its colour was dark red and was exceptionally sweet from inside. This never happened in earlier years. Some watermelons would be sweet some would not. Abdul were surprised by this observation and worried if the fruit was adulterated. He thought of conducting a test to find out if fruits and vegetables available in his locality were adulterated. He reviewed articles and papers on adulteration and found out simple tests to check adulteration at home. Abdul conducted the test and shared his results with his friend and teacher. He developed a small manual to help other check adulteration in fruits.

There are many issues in our immediate surroundings which need to be addressed. Keen observation will help identify the problem.

Before developing a problem question, students must do research on topics and find out what other people have already done in the selected area to avoid repetition. During this phase, students should be encouraged to record the reference of every bit of information they got from different sources. After developing problem question, students should write down precise testable hypothesis and design an experiment or procedure to test their hypothesis by collecting and analysing the data followed by writing conclusion and limitation of the study. Students must also develop a timeline and checklist about accessibility to resources required, safety of experiment/procedure, harmlessness of experiments to environment, organisms and other people. Teacher must ensure that it is doable within a specified period of time and available resources and is appropriately challenging to a particular student (neither be very complex or longer nor be very easy and short). It should not culminate into finding information from a book or website.

A project could have the following outline:

- 1. Statement of Problem- A clear statement of the problem/need that has given rise to the project
- 2. Objectives-General and specific objectives of topic

- 3. **Introduction**-The introduction should describe the relevance of problem or why the problem is the most appropriate for your inquiry. It should also describe previously known facts about your problem question with proper bibliography. Introduction towards end briefly includes hypothesis your hypothesis and the method to test it.
- 4. **Problem question** (specific, concrete questions to which concrete answers can be given) and/ or hypotheses
- 5. **Methods/Procedures** Methodology (will your research be based on survey, an experimental investigation, historical study, ethnographic study or content analysis). Methods describe the experiments proposed or the observations planned to make and the detailed process of analysis of data/observations. Methods proposed should be feasible and be able to adequately answer problem question.

6. Materials/Resources required

7. Observations/Data gathered

Using the procedures mentioned in introduction, experiments should be conducted and data should be recorded. Interesting things that happened during the conduct of experiments should also be recorded.

8. Analysis of data and discussion of result

Data should be interpreted in terms of proposed hypothesis. Data should be tabulated and interpreted with the help of graphs if possible. The interpretation should be done in an honest manner even if it does not support proposed hypothesis.

9. **Conclusion** Reporting and writing up the report

Discussion of new learning from the study may be covered under conclusion. This may have possible suggestions for future studies.

10. Limitation of the study

The limitations of the study are those features of design or procedure that might have affected the interpretation of the results of study. The limitations are alternatively interpreted as flaws or shortcomings due to flawed methodology, observations, small number of experiments or non-peer reviewed nature of study etc.

11. Bibliography

PARAMETER	Exemplary (4)	Accomplished (3)	Developing (2)	Beginner (1)
	Content covers the	Content from all	Content does not	Content does
Factual	research well	eras but has few	cover all eras and	not cover all eras
information		inaccuracies	has few	and is historically
			inaccuracies	inaccurate
	Multiple sources (6 or	Many sources (4-	Few sources used	Relied on only
6	more) used (library,	5) used (Books,	(2-3)	one source
Sources	books, interview with	websites, blogs)		
	people, different			
	websites, blogs etc.)			
	Collected data from a	Collected data	Collected data	Collected data
	(EQ pooplo or more	rom a fairly large	rom a small	from a small
	from different age		(20 pooplo from	Sample (10 Or
	group gender social	from different	different age	collected data
	status)	age group	group gender	for one sample
Data collection	OR collected data for	gender social	social status) OR	and 1-2 readings
	different samples and	status)	collected data for	
	at least 5 reading for	OR collected data	one sample and	
	each set of	for different	3-5 readings	
	experiment	samples and 3		
		reading for each		
		set of experiment		
	In correlation with	In correlation	Not in correlation	Not in
Interpretations	data and aim of the	with data and aim	with data but in	correlation with
and conclusion	project. Clear	of the project.	correlation with	data and aim, No
	conclusions based on	Conclusions not	the aim Random	conclusions
	findings	based on findings	conclusions	
	Daily entries with	Most of the	Daily entries	Random entries
	details of discussions	entries done with	without details	
Journal	and brainstorming	details of		
	sessions with the	discussions with		
	teacher.	the teacher		.
	Exceptionally	Attractive,	Information is	Presentation is
	attractive, organized	organized	organized	confusing. There
	sequentially and	sequentially and	sequentially and	is no sequence.
Project report	nogically, creatively	nogically,	in an attractive	
	and clear conclusions	data and	mannar Bandom	
		conclusions	Data without	
		conclusions	conclusions	
	Sites all sources and	Most of the	Few sources cited	Uses other
Academic	gives due credits	sources cited		people's ideas
Honesty	U			without giving
				credit

Rubric for Assessment of Project

BIOLOGY

(Code No. 044) Syllabus for Purpose of Examination 2021-22

CLASS – XI and XII (2021-22)

The present curriculum provides the students with updated concepts along with an extended exposure to contemporary areas of the subject. The curriculum also aims at emphasizing the underlying principles that are common to animals, plants and microorganisms as well as highlighting the relationship of Biology with other areas of knowledge. The format of the curriculum allows a simple, clear, sequential flow of concepts. It relates the study of biology to real life through the use of technology. It links the discoveries and innovations in biology to everyday life such as environment, industry, health and agriculture. The updated curriculum focuses on understanding and application of scientific principles, while ensuring that ample opportunities and scope for learning and appreciating basic concepts continue to be available within its framework. The curriculum is expected to:

- promote understanding of basic principles of Biology
- encourage learning of emerging knowledge and its relevance to individual and society
- promote rational/scientific attitude towards issues related to population, environment and development
- enhance awareness about environmental issues, problems and their appropriate solutions
- create awareness amongst the learners about diversity in the living organisms and developing respect for other living beings
- appreciate that the most complex biological phenomena are built on essentially simple processes

It is expected that the students would get an exposure to various branches of Biology in the curriculum in a more contextual and systematic manner as they study its various units.

BIOLOGY (Code No. 044) COURSE STRUCTURE CLASS XI (2021 -22)

	EVALUATION SCHEME			
Theory				
Units	Term – I	Marks		
Ι	Diversity of Living Organisms: Chapter - 1, 2, 3 and 4	15		
II	Structural Organization in Plants and Animals: Chapter – 5 and 7	08		
III	Cell: Structure and Function: Chapter – 8 and 9	12		
Units	Term - II	Marks		
III	Cell: Structure and Function: Chapter - 10	05		
IV	Plant Physiology: Chapter - 13,14 and 15	12		
V	Human Physiology: Chapter –17, 18, 19, 20, 21 and 22	18		
Total Theory (Term – I and Term – II)				

Practicals Term – I	15
Practicals Term – II	15
Total	100

THEORY

Term – I

Unit-I Diversity of Living Organisms

Chapter-1: The Living World

What is living? Biodiversity; Need for classification; three domains of life; concept of species and taxonomical hierarchy; binomial nomenclature.

Chapter-2: Biological Classification

Five kingdom classification; Salient features and classification of Monera, Protista and Fungi into major groups; Lichens, Viruses and Viroids.

Chapter-3: Plant Kingdom

Salient features and classification of plants into major groups - Algae, Bryophyta, Pteridophyta and Gymnospermae. (salient and distinguishing features and a few examples of each category).

Chapter-4: Animal Kingdom

Salient features and classification of animals, non-chordates up to phyla level and chordates up to class level (salient features and distinguishing features of a few examples of each category). (No live animals or specimen should be displayed.)

Unit-II Structural Organization in Animals and Plants

Chapter-5: Morphology of Flowering Plants

Morphology of inflorescence and flower, Description of 01 family: Solanaceae or Liliaceae (to be dealt along with the relevant experiments of the Practical Syllabus).

Chapter-7: Structural Organization in Animals

Animal tissues.

Unit-III Cell: Structure and Function

Chapter-8: Cell-The Unit of Life

Cell theory and cell as the basic unit of life, structure of prokaryotic and eukaryotic cells; Plant cell and animal cell; cell envelope; cell membrane, cell wall; cell organelles - structure and function; endomembrane system, endoplasmic reticulum, golgi bodies, lysosomes, vacuoles, mitochondria, ribosomes, plastids, microbodies; cytoskeleton, cilia, flagella, centrioles (ultrastructure and function); nucleus.

Chapter-9: Biomolecules

Chemical constituents of living cells: biomolecules, structure and function of proteins,

carbohydrates, lipids, nucleic acids; Enzymes- types, properties, enzyme action.

Term – II

Unit-III Cell: Structure and Function

Chapter-10: Cell Cycle and Cell Division

Cell cycle, mitosis, meiosis and their significance

Unit-IV Plant Physiology

Chapter-13: Photosynthesis in Higher Plants

Photosynthesis as a means of autotrophic nutrition; site of photosynthesis, pigments involved in photosynthesis (elementary idea); photochemical and biosynthetic phases of photosynthesis; cyclic and non-cyclic photophosphorylation; chemiosmotic hypothesis; photorespiration; C3 and C4 pathways; factors affecting photosynthesis.

Chapter-14: Respiration in Plants

Exchange of gases; cellular respiration - glycolysis, fermentation (anaerobic), TCA cycle and electron transport system (aerobic); energy relations - number of ATP molecules generated; amphibolic pathways; respiratory quotient.

Chapter-15: Plant - Growth and Development

Growth regulators - auxin, gibberellin, cytokinin, ethylene, ABA.

Unit-V Human Physiology

Chapter-17: Breathing and Exchange of Gases

Respiratory organs in animals (recall only); Respiratory system in humans; mechanism of breathing and its regulation in humans - exchange of gases, transport of gases and regulation of respiration, respiratory volume; disorders related to respiration - asthma, emphysema, occupational respiratory disorders.

Chapter-18: Body Fluids and Circulation

Composition of blood, blood groups, coagulation of blood; composition of lymph and its function; human circulatory system - Structure of human heart and blood vessels; cardiac cycle, cardiac output, ECG; double circulation; regulation of cardiac activity; disorders of circulatory system - hypertension, coronary artery disease, angina pectoris, heart failure.

Chapter-19: Excretory Products and their Elimination

Modes of excretion - ammonotelism, ureotelism, uricotelism; human excretory system - structure and function; urine formation, osmoregulation; regulation of kidney function - renin - angiotensin, atrial natriuretic factor, ADH and diabetes insipidus; role of other organs in

excretion; disorders - uremia, renal failure, renal calculi, nephritis; dialysis and artificial kidney, kidney transplant.

Chapter-20: Locomotion and Movement

Skeletal muscle, contractile proteins and muscle contraction.

Chapter-21: Neural Control and Coordination

Neuron and nerves; Nervous system in humans - central nervous system; peripheral nervous system and visceral nervous system; generation and conduction of nerve impulse.

Chapter-22: Chemical Coordination and Integration

Endocrine glands and hormones; human endocrine system - hypothalamus, pituitary, pineal, thyroid, parathyroid, adrenal, pancreas, gonads; mechanism of hormone action (elementary idea); role of hormones as messengers and regulators, hypo - and hyperactivity and related disorders; dwarfism, acromegaly, cretinism, goiter, exophthalmic goiter, diabetes, Addison's disease. **Note:** Diseases related to all the human physiological systems to be taught in brief.

PRACTICALS

Max. Marks: 15 for each Term

Evaluation Scheme				
	TERM-I	TERM - II	MARKS	
Part A				
One Major Experiment	Experiment No 1	Experiment No3, 4	4	
One Minor Experiment	Experiment No 2	Experiment No 5, 6, 7	3	
Part B			•	
Spotting	B.1, 2, 3	B.4, 5	3	
(3 Spots of 1 mark each)				
Practical Record + Investigatory Project& Record + Viva Voce				
Total				

Practicals should be conducted alongside the concepts taught in theory classes. A: List of Experiments

TERM -I:

- 1. Study and describe a locally available common flowering plant, from any one family: Solanaceae or Liliaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams).
- 2. Study of osmosis by Potato osmometer.

TERM -II:

- 3. Separation of plant pigments through paper chromatography.
- 4. Study of distribution of stomata in the upper and lower surfaces of leaves.
- 5. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.
- 6. Test for presence of sugar in urine.
- 7. Test for presence of albumin in urine.

B. Study/Observation of the following (spotting):

<u>TERM - I:</u>

B.1 Parts of a compound microscope.

B.2 Specimens/slides/models and identification with reasons - Bacteria, *Oscillatoria, Spirogyra, Rhizopus*, mushroom, yeast, liverwort, moss, fern, pine, one

monocotyledonous plant, one dicotyledonous plant and one lichen.

B.3 Virtual specimens/slides/models and identifying features of - *Amoeba, Hydra*, liverfluke, *Ascaris*, leech, earthworm, prawn, silkworm, honeybee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.

TERM- II :

B.4 Tissues and diversity in shape and size of animal cells (squamous epithelium, smooth, skeletal and cardiac muscle fibers and mammalian blood smear) through temporary/permanent slides.

B.5 Mitosis in onion root tip cells and animal cells (grasshopper) from permanent slides.

Practical Examination for Visually Impaired Students Class XI

Note: The 'Evaluation schemes' and 'General Guidelines' for visually impaired students as given for Class XII may be followed.

Practicals should be conducted alongside the concepts taught in theory classes.

A. Items for Identification/Familiarity with the apparatus /equipments/animal and plant material / chemicals etc. for assessment in practicals (All experiments)

<u> TERM - I:</u>

- Plants of Solanaceae Brinjal, Petunia, any other or Liliaceae- Any of the Lilies.
- Compound microscope, Test tube, Petridish, Beaker, Scalpel.

TERM - II:

- Mushroom, Succulents such as Aloe vera/Kalanchoe, Raisins, Potatoes.
- Honey comb, Mollusc shell, Model of cockroach, Pigeon and Star fish.
- Chromatography paper, Chromatography chamber, Alcohol.
- **B.** List of Practicals:

<u>TERM - I:</u>

- 1. Study one locally available common flowering plants of the family Solanaceae or Liliaceae and identify inflorescence/flower.
- 2. Study the parts of a compound microscope- eye piece and objective lens, mirror, stage, coarse and fine adjustment knobs.

TERM - II:

- 3. Identify the given specimen of a fungus Mushroom, gymnosperm- pine cone
- 4. Study honey-bee/butterfly, snail shell, Starfish, Pigeon (through models).
- **Note:** The above practicals may be carried out in an experiential manner rather than recording observations.

Prescribed Books:

- 1. Biology Class-XI, Published by NCERT
- 2. Other related books and manuals brought out by NCERT (including multimedia)

BIOLOGY (Code No. 044) COURSE STRUCTURE CLASS XII (2021 - 22)

	EVALUATION SCHEME		
Theory	ÿ		
Units	Term – I	Marks	
VI	Reproduction: Chapter - 2, 3 and 4	15	
VII	Genetics and Evolution: Chapter – 5 and 6	20	
Units	Term - II	Marks	
VIII	Biology and Human Welfare: Chapter – 8 and 10	14	
IX	Biotechnology and its Applications: Chapter – 11 and 12	11	
Χ	Ecology and Environment: Chapter – 13 and 15	10	
Total 7	Theory (Term – I and Term – II)	70	
Practio	Practicals Term – I		
Practicals Term – II		15	
Total		100	

THEORY

TERM - I

Unit-VI Reproduction

Chapter-2: Sexual Reproduction in Flowering Plants

Flower structure; development of male and female gametophytes; pollination - types, agencies and examples; outbreeding devices; pollen-pistil interaction; double fertilization; post fertilization events - development of endosperm and embryo, development of seed and formation of fruit; special modes- apomixis, parthenocarpy, polyembryony; Significance of seed dispersal and fruit formation.

Chapter-3: Human Reproduction

Male and female reproductive systems; microscopic anatomy of testis and ovary; gametogenesis - spermatogenesis and oogenesis; menstrual cycle; fertilisation, embryo development upto blastocyst formation, implantation; pregnancy and placenta formation (elementary idea); parturition (elementary idea); lactation (elementary idea).

Chapter-4: Reproductive Health

Need for reproductive health and prevention of Sexually Transmitted Diseases (STDs); birth control - need and methods, contraception and medical termination of pregnancy (MTP); amniocentesis; infertility and assisted reproductive technologies - IVF, ZIFT, GIFT (elementary idea for general awareness).

Unit-VII Genetics and Evolution

Chapter-5: Principles of Inheritance and Variation

Heredity and variation: Mendelian inheritance; deviations from Mendelism – incomplete dominance, co-dominance, multiple alleles and inheritance of blood groups, pleiotropy; elementary idea of polygenic inheritance; chromosome theory of inheritance; chromosomes and genes; Sex determination - in human being, birds and honey bee; linkage and crossing over; sex linked inheritance - haemophilia, colour blindness; Mendelian disorders in humans -thalassemia; chromosomal disorders in humans; Down's syndrome, Turner's and Klinefelter's syndromes.

Chapter-6: Molecular Basis of Inheritance

Search for genetic material and DNA as genetic material; Structure of DNA and RNA; DNA packaging; DNA replication; Central Dogma; transcription, genetic code, translation; gene expression and regulation - lac operon; Genome, Human and rice genome projects; DNA fingerprinting.

TERM - II

Unit-VIII Biology and Human Welfare

Chapter-8: Human Health and Diseases

Pathogens; parasites causing human diseases (malaria, dengue, chikungunya, filariasis, ascariasis, typhoid, pneumonia, common cold, amoebiasis, ring worm) and their control; Basic concepts of immunology - vaccines; cancer, HIV and AIDS; Adolescence - drug and alcohol abuse.

Chapter-10: Microbes in Human Welfare

Microbes in food processing, industrial production, sewage treatment, energy generation and microbes as bio-control agents and bio-fertilizers. Antibiotics; production and judicious use.

Unit-IX Biotechnology and its Applications

Chapter-11: Biotechnology - Principles and Processes

Genetic Engineering (Recombinant DNA Technology).

Chapter-12: Biotechnology and its Application

Application of biotechnology in health and agriculture: Human insulin and vaccine production, stem cell technology, gene therapy; genetically modified organisms - Bt crops; transgenic animals; biosafety issues, biopiracy and patents.

Unit-X Ecology and Environment

Chapter-13: Organisms and Populations

Organisms and environment: Habitat and niche, population and ecological adaptations; population interactions - mutualism, competition, predation, parasitism; population attributes - growth, birth rate and death rate, age distribution.

Chapter-15: Biodiversity and its Conservation

Biodiversity - Concept, patterns, importance; loss of biodiversity; biodiversity conservation; hotspots, endangered organisms, extinction, Red Data Book, Sacred Groves, biosphere reserves, national parks, wildlife, sanctuaries and Ramsar sites.

PRACTICALS

Max. Marks: 15 for each Term

Evaluation Scheme			
	TERM - I	TERM - II	MARKS
Part A			
One Major Experiment	Experiment No. – 1	Experiment No 3	4
One Minor Experiment	Experiment No 2	Experiment No. – 4, 5	3
Part B			
Spotting	B.1, 2, 3, 4, 5	B.6, 7, 8	3
(3 Spots of 1 mark each)			
Practical Record + Investigatory Project & Record + Viva Voce 5			5
Total			15

Practicals should be conducted alongside the concepts taught in theory classes.

A. List of Experiments

<u>TERM - I:</u>

- 1. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.
- 2. Prepare a temporary mount to observe pollen germination.

TERM - II:

- 3. Prepare a temporary mount of onion root tip to study mitosis.
- 4. Collect water from two different water bodies around you and study them for pH, clarity and presence of any living organism
- 5. Collect and study soil from at least two different sites and study them for texture, moisture content, pH and water holding capacity. Correlate with the kinds of plants found in them.

B. Study/observation of the following (Spotting)

<u> TERM - I:</u>

- B.1 Flowers adapted to pollination by different agencies (wind, insects, birds).
- B.2 Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).
- B.3 Meiosis in onion bud cell or grasshopper testis through permanent slides.
- B.4 T.S. of blastula through permanent slides (Mammalian).
- B.5 Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colourblindness.

<u>TERM – II:</u>

- B.6 Common disease causing organisms like *Ascaris, Entamoeba, Plasmodium*, any fungus causing ringworm through permanent slides, models or virtual images. Comment on symptoms of diseases that they cause.
- B.7 Two plants and two animals (models/virtual images) found in xeric conditions. Comment upon their morphological adaptations.
- B.8 Two plants and two animals (models/virtual images) found in aquatic conditions. Comment upon their morphological adaptations.

Practical Examination for Visually Impaired Students of Classes XI and XII Evaluation Scheme

Max. Marks: 15 for each Term

Торіс	Marks
Identification/Familiarity with the apparatus	5
Written test (Based on given/prescribed practicals)	5
Practical Records and Viva	5
Total	15

General Guidelines

- The practical examination will be of one-hour duration.
- The written examination in practicals for these students will be conducted at the time of practical examination of all other students.
- The written test will be of 30 minutes duration.
- The question paper given to the students should be legibly typed. It should contain a total of 8 practical skill based very short answer type questions. A student would be required to answer any 5 questions.
- A writer may be allowed to such students as per CBSE examination rules.
- All questions included in the question paper should be related to the listed practicals. Every question should require about two minutes to be answered.
- These students are also required to maintain a practical file. A student is expected to record the listed experiments Term -wise as per the specific instructions for each subject. These practicals should be duly checked and signed by the internal examiner.
- The format of writing any experiment in the practical file should include aim, apparatus

required, simple theory, procedure, related practical skills, precautions etc.

- Questions may be generated jointly by the external/internal examiners and used for assessment.
- The viva questions may include questions based on basic theory/principle/concept, apparatus/materials/chemicals required, procedure, precautions, sources of error etc.

Class XII

Practicals should be conducted alongside the concepts taught in theory classes.

A. Items for Identification/ familiarity with the apparatus for assessment in practicals (All experiments)

TERM -I:

- Beaker, flask, petri plates, test tubes, aluminium foil, paint brush, bunsen burner/spirit lamp/water bath.
- Starch solution, iodine, ice cubes.
- Developmental stages of frog highlighting morula and blastula.

TERM -II:

- Soil from different sites- sandy, clayey, loamy; Small potted plants, Cactus/*Opuntia* (model), Large flowers, Maize inflorescence.
- Model of Ascaris

B. List of Practicals

TERM -I:

- 1. Study of flowers adapted to pollination by different agencies (wind, insects).
- 2. Identification of T.S of morula or blastula of frog (model).
- 3. Preparation of pedigree charts of genetic traits such as rolling of tongue, colour blindness.

TERM -II:

- 4. Study of the soil obtained from at least two different sites for their texture.
- 5. Identify common disease-causing organisms like *Ascaris (Model)* and learn some common symptoms of the disease that they cause.
- 6. Comment upon the morphological adaptations of plants found in xerophytic conditions.
- **Note:** The above practicals may be carried out in an experiential manner rather than recording observations.

Prescribed Books:

- 1. Biology, Class-XII, Published by NCERT
- 2. Other related books and manuals brought out by NCERT (including multimedia)
- 3. Biology Supplementary Material (Revised). Available on CBSE website.

Assessment Areas (Theory) 2021-22 Class XII Biology (044)

Competencies		
Demonstrate Knowledge and Understanding	50%	
Application of Knowledge / Concepts	30%	
Analyse, Evaluate and Create	20%	

Note:

• Internal choice would be provided.

Suggestive verbs for various competencies

- **Demonstrate, Knowledge and Understanding** State, name, list, identify, define, suggest, describe, outline, summarize, etc.
- Application of Knowledge/Concepts Calculate, illustrate, show, adapt, explain, distinguish, etc.

• Analyze, Evaluate and Create

Interpret, analyse, compare, contrast, examine, evaluate, discuss, construct, etc.

ACCOUNTANCY (Code No. 055)

Rationale

The course in accountancy is introduced at plus two stage of senior second of school education, as the formal commerce education is provided after ten years of schooling. With the fast changing economic scenario, accounting as a source of financial information has carved out a place for itself at the senior secondary stage. Its syllabus content provide students a firm foundation in basic accounting concepts and methodology and also acquaint them with the changes taking place in the preparation and presentation of financial statements in accordance to the applicable accounting standards and the Companies Act 2013.

The course in accounting put emphasis on developing basic understanding about accounting as an information system. The emphasis in Class XI is placed on basic concepts and process of accounting leading to the preparation of accounts for a sole proprietorship firm. The students are also familiarized with basic calculations of Goods and Services Tax (GST) in recording the business transactions. The accounting treatment of GST is confined to the syllabus of class XI.

The increased role of ICT in all walks of life cannot be overemphasized and is becoming an integral part of business operations. The learners of accounting are introduced to Computerized Accounting System at class XI and XII. Computerized Accounting System is a compulsory component which is to be studied by all students of commerce in class XI; whereas in class XII it is offered as an optional subject to Company Accounts and Analysis of Financial Statements. This course is developed to impart skills for designing need based accounting database for maintaining book of accounts.

The complete course of Accountancy at the senior secondary stage introduces the learners to the world of business and emphasize on strengthening the fundamentals of the subject.

Objectives:

- 1. To familiarize students with new and emerging areas in the preparation and presentation of financial statements.
- 2. To acquaint students with basic accounting concepts and accounting standards.

- 3. To develop the skills of designing need based accounting database.
- 4. To appreciate the role of ICT in business operations.
- 5. To develop an understanding about recording of business transactions and preparation of financial statements.
- 6. To enable students with accounting for Not-for-Profit organizations, accounting for Partnership Firms and company accounts.

Accountancy (Code No.055)

Course Structure

Class-XI (2021-22)

	TERM – 1 (MCQ BASED QUESTION PAPER)	
	THEORY :40 MARKS TIME: 90 minutes	MARKS
	Part A: FINANCIAL ACCOUNTING-I	
	<u>UNIT 1</u>	
	THEORETICAL FRAMEWORK:	12
1	INTRODUCTION TO ACCOUNTING	
2	THEORY BASE OF ACCOUNTING	
	UNIT 2 ACCOUNTING PROCESS: RECORDING OF BUSINESS TRANSACTIONS, BANK RECONCILIATION STATEMENT, DEPRECIATION, PROVISIONS AND RESERVES	28
	TOTAL	40
	Project Work (Part -1): 10 Marks	

PART A: FINANCIAL ACCOUNTING - I

Unit-1: Theoretical Framework

Units/Topics	Learning Outcomes	
Introduction to Accounting	After going through this Unit, the students will be	
Accounting- concept, objectives, advantages	able to:	
and limitations, types of accounting	 describe the meaning, significance, 	
information; users of accounting information	objectives, advantages and limitations of	
and their needs. Qualitative Characteristics of	accounting in the modem economic	
Accounting Information. Role of Accounting in	environment with varied types of business	
Business.	and non-business economic entities.	
Basic Accounting Terms- Business	 identify / recognise the individual(s) and 	
Transaction, Capital, Drawings. Liabilities	entities that use accounting information for	
(Non Current and Current). Assets (Non	serving their needs of decision making.	
Current, Current); Fixed assets (Tangible and	explain the various terms used in accounting	
Intangible), Expenditure (Capital and	and differentiate between different related	
Revenue), Expense, Income, Profit, Gain,	terms like current and non-current, capital	
Loss, Purchase, Sales, Goods, Stock,	and revenue.	
Debtor, Creditor, Voucher, Discount (Trade	 give examples of terms like business 	
discount and Cash Discount)	transaction, liabilities, assets, expenditure	
	and purchases.	

Theory Base of Accounting

- Fundamental accounting assumptions: GAAP: Concept
- Business Entity, Money Measurement, Going Concern, Accounting Period, Cost Concept, Dual Aspect, Revenue Recognition, Matching, Full Disclosure, Consistency, Conservatism, Materiality and Objectivity
- System of Accounting. Basis of Accounting: cash basis and accrual basis
- Accounting Standards: Applicability in IndAS
- Goods and Services Tax (GST): Characteristics and Objective.

- explain that sales/purchases include both cash and credit sales/purchases relating to the accounting year.
- differentiate among income, profits and gains.
- state the meaning of fundamental accounting assumptions and their relevance in accounting.
- describe the meaning of accounting assumptions and the situation in which an assumption is applied during the accounting process.
- explain the meaning and objectives of accounting standards.
- appreciate that various accounting standards developed nationally and globally are in practice for bringing parity in the accounting treatment of different items.
- acknowledge the fact that recording of accounting transactions follows double entry system.
- explain the bases of recording accounting transaction and to appreciate that accrual basis is a better basis for depicting the correct financial position of an enterprise.
- Understand the need of IFRS
- Explain the meaning, objective and characteristic of GST.

Unit-2: Accounting Process

Units/Topics	Learning Outcomes
Recording of Business Transactions	After going through this Unit, the students will be
Voucher and Transactions: Source	able to:
documents and Vouchers, Preparation of	explain the concept of accounting equation
Vouchers, Accounting Equation Approach:	and appreciate that every transaction affects
Meaning and Analysis, Rules of Debit and	either both the sides of the equation or a
Credit.	positive effect on one item and a negative
Recording of Transactions: Books of Original	effect on another item on the same side of

Entry- Journal

- Special Purpose books:
- Cash Book: Simple, cash book with bank column and petty cashbook
- Purchases book
- Sales book
- Purchases return book
- Sales return book

Note: Including trade discount, freight and cartage expenses for simple GST calculation.

 Ledger: Format, Posting from journal and subsidiary books, Balancing of accounts

Bank Reconciliation Statement:

• Need and preparation.

Depreciation, Provisions and Reserves

- Depreciation: Concept, Features, Causes, factors
- Other similar terms: Depletion and Amortisation
- Methods of Depreciation:
 - i. Straight Line Method (SLM)
 - ii. Written Down Value Method (WDV)

Note: Excluding change of method

- Difference between SLM and WDV; Advantages of SLM and WDV
- Accounting treatment of depreciation
 - i. Charging to asset account
 - ii. Creating provision for

depreciation/accumulated depreciation account

- Provisions and Reserves: Difference
- Types of Reserves:
 - i. Revenue reserve
 - ii. Capital reserve
 - iii. General reserve
 - iv. Specific reserve

accounting equation.

- explain the effect of a transaction (increase or decrease) on the assets, liabilities, capital, revenue and expenses.
- appreciate that on the basis of source documents, accounting vouchers are prepared for recording transaction in the books of accounts.
- develop the understanding of recording of transactions in journal and the skill of calculating GST.
- explain the purpose of maintaining a Cash Book and develop the skill of preparing the format of different types of cash books and the method of recording cash transactions in Cash book.
- describe the method of recording transactions other than cash transactions as per their nature in different subsidiary books.
- appreciate that at times bank balance as indicated by cash book is different from the bank balance as shown by the pass book / bank statement and to reconcile both the balances, bank reconciliation statement is prepared.
- develop understanding of preparing bank reconciliation statement.
- appreciate that for ascertaining the position of individual accounts, transactions are posted from subsidiary books and journal proper into the concerned accounts in the ledger and develop the skill of ledger posting.
- explain the necessity of providing depreciation and develop the skill of using different methods for computing depreciation.
- understand the accounting treatment of providing depreciation directly to the concerned asset account or by creating provision for depreciation account.

v. Secret Reserve	appreciate the need for creating reserves and
Difference between capital and revenue	also making provisions for events which may
reserve	belong to the current year but may happen in
	next year.
	appreciate the difference between reserve
	and reserve fund.

	<u>TERM II</u>	
	Theory: 40 Marks	MARKS
	Part A	
	<u>UNIT 2</u>	
	ACCOUNTING PROCESS:	
1	ACCOUNTING FOR BILLS OF EXCHANGE	12
2	TRIAL BALANCE AND RECTIFICATION OF ERRORS	
	Part B: FINANCIAL ACCOUNTING-II	
	UNIT 3 FINANCIAL STATEMENTS OF SOLE PROPRIETORSHIP FROM COMPLETE AND INCOMPLETE RECORDS	20
	<u>UNIT 4</u>	
	COMPUTERS IN ACCOUNTING	8
	TOTAL	40
	PROJECT (PART – 2): 10 MARKS	

Accounting for Bills of Exchange	 acquire the knowledge of using bills of
Bill of exchange and Promissory Note:	exchange and promissory notes for financing
Definition, Specimen, Features, Parties.	business transactions.
Difference between Bill of Exchange and	 understand the meaning and distinctive
Promissory Note	features of these instruments and develop
Terms in Bill of Exchange:	the skills of their preparation.
i. Term of Bill	state the meaning of different terms used in
ii. Accommodation bill (concept)	bills of exchange and their implication in
iii. Days of Grace	accounting.
iv. Date of maturity	explain the method of recording of bill
v. Discounting of bill	transactions.
vi. Endorsement of bill	 state the need and objectives of preparing
vii. Bill after due date	trial balance and develop the skill of
viii. Negotiation	preparing trial balance.
ix. Bill sent for collection	 appreciate that errors may be committed
x. Dishonour of bill	during the process of accounting.
Accounting Treatment	 understand the meaning of different types of
Note: excluding accounting treatment for	errors and their effect on trial balance
accommodation bill	develop the skill of identification and leastion
Trial balance and Rectification of Errors	develop the skill of identification and location
Trial balance: objectives and preparation	of errors and their rectification and
(Scope: Trial balance with balance method only)	preparation of suspense account.
• Errors: types-errors of omission, commission,	
principles, and compensating; their effect on	
Trial Balance.	
• Detection and rectification of errors;	
preparation of suspense account.	

Part B: Financial Accounting - II

Unit 3: Financial Statements of Sole Proprietorship

Units/Topics	Learning Outcomes

Financial Statements	After going through this Unit, the students will be
Meaning, objectives and importance; Revenue and	able to:
Capital Receipts; Revenue and Capital Expenditure;	• state the meaning of financial statements the
Deferred Revenue expenditure.	 purpose of preparing financial statements.
Trading and Profit and Loss Account: Gross Profit,	 state the meaning of gross profit, operating
Operating profit and Net profit. Preparation.	profit and net profit and develop the skill of
Balance Sheet: need, grouping and marshalling of assets	preparing trading and profit and loss account
and liabilities. Preparation.	evolution the need for preparing balance sheet
Adjustments in preparation of financial statements with	• explain the need to preparing balance sheet.
respect to closing stock, outstanding expenses, prepaid	understand the technique of grouping and more balling of groups and link littles
expenses, accrued income, income received in advance,	marshalling of assets and liabilities.
depreciation, bad debts, provision for doubtful debts,	 appreciate that there may be certain items
provision for discount on debtors, Abnormal loss, goods	other than those shown in trial balance which
taken for personal use/staff welfare, interest on capital	may need adjustments while preparing
and managers commission.	financial statements.
Preparation of Trading and Profit and Loss account and	 develop the understanding and skill to do
Balance Sheet of a sole proprietorship with adjustments.	adjustments for items and their presentation
	in financial statements like depreciation,
Incomplete Records	closing stock, provisions, abnormal loss etc.
Features, reasons and limitations.	• develop the skill of preparation of trading and
Ascertainment of Profit/Loss by Statement of Affairs	profit and loss account and balance sheet.
method.	 state the meaning of incomplete records and
	their uses and limitations.
	develop the understanding and skill of
	computation of profit / loss using the
	statement of officire method

Unit 4: Computers in Accounting

Units/Topics		Learning Outcomes
•	Introduction to computer and accounting	After going through this Unit, the students will be
	information system {AIS}: Introduction to	able to:
	computers (elements, capabilities, limitations	• state the meaning of a computer, describe its
	of computer system)	components, capabilities and limitations.
		state the meaning of accounting information
		system.

Scope:	appreciate the need for use of computers in
(i) The scope of the unit is to understand accounting	accounting for preparing accounting reports.
as an information system for the generation of	develop the understanding of comparing the
accounting information and preparation of accounting	manual and computerized accounting
reports.	process and appreciate the advantages and
(ii) It is presumed that the working knowledge of any	limitations of automation.
appropriate accounting software will be given to the	understand the different kinds of accounting
students to help them learn basic accounting	software.
operations on computers.	

Part C: Project Work

The project work would be divided into two parts i.e. Term I (10 marks) and Term II (10 marks) for the purpose of assessment and will be covered as detailed below.

Comprehensive project of any sole proprietorship business. This may state with journal entries and their ledger postings, preparation of Trial balance. Trading and Profit and Loss Account and Balance Sheet. Expenses, incomes and profit (loss), assets and liabilities are to be depicted using pie chart / bar diagram.

TERM -I

PARTICULARS	MARKS
Project (Till Ledger Posting and balancing of accounts)	10

TERM -II

PARTICULARS	MARKS
Project (Financial statements and depiction using diagrammatic / graphical tools)	10

PROJECT WORK

It is suggested to undertake this project after completing the unit on preparation of financial statements. The student(s) will be allowed to select any business of their choice or develop the transaction of imaginary business. The project is to run through the chapters and make the project an interesting process. The amounts should emerge as more realistic and closer to reality.

Specific Guidelines for Teachers

Give a list of options to the students to select a business form. You can add to the given list:

- 1. A beauty parlour
- 10. Men's wear
- Men's saloon
 A tailoring shop
- 11. Ladies wear
- 12. Kiddies wear
- 19. A coffee shop 20. A music shop 21. A juice shop

- 4. A canteen
- 5. A cake shop
- 6. A confectionery shop
- 7. A chocolate shop
- 8. A dry cleaner 9. A stationery shop
- 13. A Saree Shop14. Artificial jewellery shop 15. A small restaurant 16. A sweet shop 17. A grocery shop
 - 18. A shoe shop

13. A Saree shop

22. A school canteen 23. An ice cream parlour 24. A sandwich shop

25. A flower shop

After selection, advise the student(s) to visit a shop in the locality (this will help them to settle on a realistic amounts different items. The student(s) would be able to see the things as they need to invest in furniture, decor, lights, machines, computers etc.

A suggested list of different item is given below.

1. Rent	19. Wages and Salary
2. Advance rent [approximately three months]	20. Newspaper and magazines
3. Electricity deposit	21. Petty expenses
4. Electricity bill	22. Tea expenses
5. Electricity fitting	23. Packaging expenses
6. Water bill	24. Transport
7. Water connection security deposit	25. Delivery cycle or a vehicle purchased
8. Water fittings	26. Registration
9. Telephone bill	27. Insurance
10. Telephone security deposit	28. Auditors fee
11. Telephone instrument	29. Repairs & Maintenance
12. Furniture	30. Depreciations
13. Computers	31. Air conditioners
14. Internet connection	32. Fans and lights
15. Stationery	 Interior decorations
16. Advertisements	34. Refrigerators
17. Glow sign	35. Purchase and sales
18. Rates and Taxes	

At this stage, performas of bulk of originality and ledger may be provided to the students and they may be asked to complete the same.

In the next step the students are expected to prepare the trial balance and the financial statements.

Accountancy (Code No. 055)

(2021-22) CLASS XII - CURRICULUM (TERM-WISE)

	TERM -1 (MCQ BASED QUESTION PAPER)	
	Theory:40 Marks Duration: 90 minutes	MARKS
	Part A	
	UNIT	
	ACCOUNTING FOR PARTNERSHIP FIRMS:	18
1	FUNDAMENTALS	
2	CHANGE IN PROFIT SHARING RATIO	
3	ADMISSION OF A PARTNER	
	COMPANY ACCOUNTS:	12
1	ACCOUNTING FOR SHARES	
	PART B	
	ANALYSIS OF FINANCIAL STATEMENTS:	10
1	FINANCIAL STATEMENTS OF A COMPANY	
	(i) Statement of Profit and Loss and Balance Sheet in	
	prescribed form with major headings and sub	
	headings (as per Schedule III to the Companies Act,	
	2013)	
	(ii) Tools of Analysis - Ratio Analysis	
2	ACCOUNTING RATIOS	
	OR	
	COMPUTERISED ACCOUNTING	10
1	OVERVIEW OF COMPUTERISED ACCOUNTING SYSTEM	
2	ACCOUNTING APPLICATION OF ELECTRONIC SPREADSHEET	
	Total	40
	Project Work (Part -1): 10 Marks	

Part - A:

Unit : Accounting for Partnership Firms

Units/Topics	Learning Outcomes
Partnership: features, Partnership Deed.	After going through this Unit, the students will beable to:
 Provisions of the Indian Partnership Act 1932in the absence of partnership deed. 	 state the meaning of partnership, partnershipfirm and partnership deed.
 Fixed v/s fluctuating capital accounts. Preparation of Profit and Loss Appropriationaccount- division of profit among partners, guarantee of profits. 	 describe the characteristic features of partnership and the contents of partnershipdeed. discuss the significance of provision of Partnership
 Past adjustments (relating to interest on capital, interest on drawing, salary and profitsharing ratio). Goodwill: nature, factors affecting and methods of valuation - average profit, superprofit and capitalization. 	 Act in the absence of partnershipdeed. differentiate between fixed and fluctuating capital, outline the process and develop the understanding and skill of preparation of Profit and Loss Appropriation Account.
Note: Interest on partner's loan is to be treated as a charge against profits.	 develop the understanding and skill of preparation profit and loss appropriation account involving guarantee of profits.
Goodwill to be adjusted through partners capital/current account. Note: Raising and writing off goodwill is excluded.	 develop the understanding and skill ofmaking past adjustments.
Accounting for Partnership firms - Reconstitution	 state the meaning, nature and factors affecting goodwill
Change in the Profit Sharing Ratio amongthe existing partners - sacrificing ratio, gaining ratio,	 develop the understanding and skill of valuation of goodwill using different methods.
accounting for revaluation of assets and reassessment of liabilities and treatment of reserves and accumulated profits. Preparation of revaluation	 state the meaning of sacrificing ratio, gainingratio and the change in profit sharing ratio among existing partners.
 Admission of a partner - effect of admission of a partner on change in the profit sharing ratio, treatment of goodwill, treatment for revaluation of assets and reassessment of liabilities, treatment of reserves and accumulated profits. 	 develop the understanding of accounting treatment of revaluation assets and reassessment of liabilities and treatment ofreserves and accumulated profits by preparing revaluation account and balancesheet. explain the effect of change in profit sharingratio on admission of a new partner.
	 develop the understanding and skill of treatment of goodwill, treatment of revaluation of assets and re- assessment of liabilities, treatment of reserves and accumulated profits, and preparation of balance sheet of the new firm.

Unit - Accounting for Companies

Units/Topics	Learning Outcomes	
 Units/Topics Accounting for Share Capital Share and share capital: nature and types. Accounting for share capital: issue and allotment of equity and preferences shares. Public subscription of shares - over subscription and under subscription of shares; issue at par and at premium, calls in advance and arrears (excluding interest), issue of shares for consideration other than cash. Concept of Private Placement and EmployeeStock Option Plan (ESOP). Accounting treatment of forfeiture and re-issue of shares. Disclosure of share capital in the BalanceSheet of a company. 	 Learning Outcomes After going through this Unit, the students will beable to: state the meaning of share and share capitaland differentiate between equity shares and preference shares and different types of share capital. understand the meaning of private placementof shares and Employee Stock Option Plan. explain the accounting treatment of sharecapital transactions regarding issue of shares. develop the understanding of accounting treatment of forfeited shares. describe the presentation of share capital inthe balance sheet of the company as per schedule III part I of the Companies Act 2013. 	

<u> Part – B:</u>

Unit : Analysis of Financial Statements

Units/Topics	Learning Outcomes
Financial statements of a Company:	After going through this Unit, the students will be
Statement of Profit and Loss and Balance Sheet in	able to:
prescribed form with major headings and sub headings	• develop the understanding of major headings
(as per Schedule III to the Companies Act,2013)	and sub-headings (as per Schedule III to the
	Companies Act, 2013) of balance sheet as
Note: Exceptional items, extraordinary items and	per the prescribed norms / formats.
profit (loss) from discontinued operations are	• state the meaning, objectives and limitations
excluded.	of financial statement analysis.
• Financial Statement Analysis: Objectives,	discuss the meaning of different tools of
importance and limitations.	'financial statements analysis'.
• Accounting Ratios: Meaning, Objectives,	 state the meaning, objectives and
classification and computation.	significance of different types of ratios.
Liquidity Ratios: Current ratio and Quick	develop the understanding of computation of
ratio.	current ratio and quick ratio.
• Solvency Ratios: Debt to Equity Ratio, Total	develop the skill of computation of debt equity
Asset to Debt Ratio, Proprietary Ratio and	ratio, total asset to debt ratio, proprietary ratio
interest coverage ratio.	and interest coverage ratio.
Activity Ratios: Inventory Turnover Ratio,	develop the skill of computation of inventory
Trade Receivables Turnover Ratio, Trade	turnover ratio, trade receivables and trade
Payables Turnover Ratio and Working Capital	payables ratio and working capital turnover
Turnover Ratio.	ratio.
	develop the skill of computation of gross
Profitability Ratios: Gross Profit Ratio,	profit ratio, operating ratio, operating profit
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Operating Ratio, Operating Profit Ratio, Net	ratio, net profit ratio and return on investment.
Profit Ratio and Return on Investment.	

Note: Net Profit Ratio is to be calculated on the basis of profit before and after tax.

OR

Part B: Computerised Accounting

Unit : Computerised Accounting

Overview of Computerised Accounting System

- Introduction: Application in Accounting.
- Features of Computerised Accounting System.
- Structure of CAS.
- Software Packages: Generic; Specific; Tailored.

Accounting Application of Electronic Spreadsheet.

- Concept of electronic spreadsheet.
- Features offered by electronic spreadsheet.
- Application in generating accounting information bank reconciliation statement; asset accounting; loan repayment of loan schedule, ratio analysis
- Data representation- graphs, charts and diagrams.

TER	II- M

	<u>TERM II</u>	
	Theory: 40 Marks	MARKS
	Part A	
	UNIT	
1	ACCOUNTING FOR NOT-FOR PROFIT ORGANISATIONS	10
	_	
	ACCOUNTING FOR PARTNERSHIP FIRMS:	12
1	RETIREMENT AND DEATH OF A PARTNER	
2	DISSOLUTION OF PARTNERSHIP FIRMS	
	COMPANY ACCOUNTS:	8
1	ACCOUNTING FOR DEBENTURES	
	PART B	
	ANALYSIS OF FINANCIAL STATEMENTS:	10
1	FINANCIAL STATEMENTS OF A COMPANY	

	(i) COMPARATIVE AND COMMON SIZE STATEMENTS	
2	CASH FLOW STATEMENT	
	OR	
	COMPUTERISED ACCOUNTING	10
1	USING COMPUTERISED ACCOUNTING SYSTEM	
2	DATABASE MANAGEMENT SYSTEM	
	Total	40
	PROJECT (PART – 2): 10 MARKS	

Part - A: Unit : Accounting for Not – For Profit Organisations

Jnits/Topics Learning Outcomes		
Not-for-profit organizations: concept.	After going through this Unit, the students will be	
Receipts and Payments Account: features	able to:	
and preparation.	state the meaning of a Not-for-profit	
Income and Expenditure Account: features,	organisation and its distinction from a profit	
preparation of income and expenditure	making entity.	
account and balance sheet from the given	state the meaning of receipts and payments	
receipts and payments account with	account, and understanding its features.	
additional information.	develop the understanding and skill of	
Scope:	preparing receipts and payments account.	
(i) Adjustments in a question should not exceed 3 or 4	• state the meaning of income and expenditure	
in number and restricted to subscriptions, consumption	account and understand its features.	
of consumables and sale of assets/ old material.	develop the understanding and skill of	
(ii) Entrance/admission fees and general donations	preparing income and expenditure account	
are to be treated as revenue receipts.	and balance sheet of a not-for-profit	
(iii) Trading Account of incidental activities is not to be	organisation with the help of given receipts	
prepared.	and payments account and additional	
	information.	

Unit : Accounting for Partnership Firms

Accounting for Partnership firms - Reconstitution	
and Dissolution.	
• Retirement and death of a partner: effect of	• explain the effect of retirement / death of a
retirement / death of a partner on change in	partner on change in profit sharing ratio.
profit sharing ratio, treatment of goodwill,	develop the understanding of accounting
treatment for revaluation of assets and	treatment of goodwill, revaluation of assets
reassessment of liabilities, adjustment of	and re-assessment of liabilities and
accumulated profits and reserves and	adjustment of accumulated profits and
preparation of balance sheet.	reserves on retirement / death of a
Calculation of deceased partner's share of	partner.
profit till the date of death.	develop the skill of calculation of deceased

Dissolution of a partnership firm: meaning d	partner's share till the time of his death.
dissolution of partnership and partnership firm, types	discuss the preparation of the capital
of dissolution of a firm. Settlementof accounts -	accounts of the remaining partners and the
preparation of realization account, and other related	balance sheet of the firm after retirement /
accounts: capitalaccounts of partners and cash/bank	death of a partner.
a/c (excluding piecemeal distribution, sale to a	understand the situations under which a
company and insolvency of partner(s)).	partnership firm can be dissolved.
Note:	develop the understanding of preparation
(i) If realized value of an asset is not given, it is to	of realisation account and other related
be presumed that it has not realised any amount.	accounts.
 (ii) If a partner has borne and/ or paid the realisation expenses, it should be stated. 	

Unit - Accounting for Companies

Units/Topics	Learning Outcomes	
Accounting for Debentures	After going through this Unit, the students will be	
• Debentures: Issue of debentures at par, at a	able to:	
premium and at a discount. Issue of	explain the accounting treatment of different	
debentures for consideration other than cash;	categories of transactions related to issue of	
Issue of debentures with terms of	debentures.	
redemption; debentures as collateral security-	develop the understanding and skill of writing	
concept, interest on debentures. Writing off	of discount / loss on issue of debentures.	
discount / loss on issue of debentures.	understand the concept of collateral security	
	and its presentation in balance sheet.	
Note: Discount or loss on issue of debentures to be	 develop the skill of calculating interest on 	
written off in the year debentures are allotted from	 debentures and its accounting 	
Security Premium Reserve/ Capital Reserve/	treatment.	
Statement of Profit and Loss as Financial Cost (AS16)	 state the meaning of redemption of 	
in that order.	debentures.	
Note: Related sections of the Companies Act, 2013will		
apply.		
Concept of Tax Deducted at Source (TDS) is excluded.		

<u> Part – B:</u>

Unit : Analysis of Financial Statements

Units/Topics	Learning Outcomes
 Financial statements of a Company: Tools for Financial Statement Analysis: Comparative statements, common size statements. 	 After going through this Unit, the students will beable to: develop the understanding and skill of preparation of comparative and common sizefinancial statements.

Unit : Cash Flow Statement

Units/Topics	Learning Outcomes	
 Meaning, objectives and preparation (as perAS 3 (Revised) (Indirect Method only) Note: (i) Adjustments relating to depreciation and amortization, profit or loss on sale of assets includinginvestments, dividend (both final and interim) and tax. (ii) Bank overdraft and cash credit to be treated asshort term borrowings. (iii) Current Investments to be taken as Marketable securities unless otherwise specified. 	 After going through this Unit, the students willbe able to: state the meaning and objectives of cash flow statement. develop the understanding of preparation of Cash Flow Statement using indirect methodas per AS 3 with given adjustments. 	

Note: Previous years' Proposed Dividend to be given effect, as prescribed in AS-4, Events occurring after the Balance Sheet date. Current years' Proposed Dividend will be accounted for in the next year after it is declared by the shareholders.

OR

Part B: Computerised Accounting

Unit : Computerised Accounting

Using Computerized Accounting System.

- Steps in installation of CAS, codification and Hierarchy of account heads, creation of accounts.
- Data: Entry, validation and verification.
- Adjusting entries, preparation of balance sheet, profit and loss account with closing entries and opening entries.
- Need and security features of the system.

Database Management System (DBMS)

- Concept and Features of DBMS.
- DBMS in Business Application.
- Generating Accounting Information Payroll.

Part C: Practical Work

Students would prepare only ONE project in the entire academic session, which is divided into two terms i.e. Term – I and Term – II

Detailed guidelines for project work are as follows-

Students need to create one specific project only in which they would be required to cover the company profile, assessment of financial

statements, and specific report analysis. The main objective of preparing the project report is for the following reason:

- Students are able to state the meaning, objectives, and limitations of financial statement analysis.
 Study the proper use of different tools of 'financial statements analysis' like comparative analysis, Ratios and Cash flow
- statement. 3. Capable to create Comparative Statements and Common Size Statement.
- 4. Understand the Meaning, objective, advantage, and limitation of Accounting Ratios.

TERM -I

PARTICULARS	MAXIMUM MARKS
Written Test (based on Project – Accounting Ratios)	6
Practical file	2
Viva (Ratio Analysis)	2

TERM -II

PARTICULARS	MAXIMUM MARKS
Written Test (based on Comparative Statements and Common Size Statement and Cash Flow statement)	6
Practical file	2
Viva (Comparative Statements and Common Size Statement and Cash flow Statement)	2

Prescribed Books:

Financial Accounting -I	Class XI	NCERT Publication
Accountancy -II	Class XI	NCERT Publication
Accountancy -I	Class XII	NCERT Publication
Accountancy -II	Class XII	NCERT Publication
Accountancy – Computerised Accounting System	Class XII	NCERT Publication

BUSINESS STUDIES (Code No. 054)

Rationale

The courses in Business Studies are introduced at + 2 stage of Senior Secondary Education as formal commerce education is provided after the first ten years of schooling. Therefore, it becomes necessary that instructions in these subjects are given in such a manner that students have a good understanding of the principles and practices bearing in business (trade and industry) as well as their relationship with the society.

Business is a dynamic process that brings together technology, natural resources and human initiative in a constantly changing global environment. To understand the framework in which a business operates, a detailed study of the organisation and management of business processes and its interaction with the environment is required. Globalisation has changed the way organizations transact their business.

Information Technology is becoming a part of business operations in more and more organizations. Computerized systems are fast replacing other systems. E-business and other related concepts are picking up fast which need to be emphasized in the curriculum.

The course in Business Studies prepares students to analyze, manage, evaluate and respond to changes which affect business. It provides a way of looking at and interacting with the business environment. It recognizes the fact that business influences and is influenced by social, political, legal and economic forces.

It allows students to appreciate that business is an integral component of society and develops an understanding of many social and ethical issues.

Therefore, to acquire basic knowledge of the business world, a course in Business Studies would be useful. It also informs students of a range of study and work options and bridges the gap between school and work.

Objectives:

- To inculcate business attitude and develop skills among students to pursue higher education, world of work including self employment.
- To develop students with an understanding of the processes of business and its environment;
- To acquaint students with the dynamic nature and interdependent aspects of business;

- To develop an interest in the theory and practice of business, trade and industry;
- To familiarize students with theoretical foundations of the process of organizing and managing the operations of a business firm;
- To help students appreciate the economic and social significance of business activity and the social cost and benefits arising there from;
- To acquaint students with the practice of managing the operations and resources of business;
- To enable students to act more effectively and responsibly as consumers, employers, employees and citizens;

BUSINESS STUDIES (Code No. 054) CLASS–XI (2021-22) TERM WISE CURRICULUM

	TERM 1-MCQ BASED QUESTION PAPER THEORY - 40 MARKS DURATION: 90 MINUTES		
Units		Periods	Marks
Part A	Foundations of Business		
1	Evolution and Fundamentals of Business	18	16
2	Forms of Business Organisations	20	
3	Public, Private and Global Enterprises	10	14
4	Business Services	14	
5	Emerging Modes of Business	05	10
6	Social Responsibility of Business and Business Ethics	08	
	Total	75	40
	PROJECT WORK (Part-1)		10

TERM I

Part A: Foundation of Business

Concept includes meaning and features

Unit 1: Evolution and Fundamentals of Business

Content	After going through this unit, the student/ learner would be able to:
History of Trade and Commerce in India: Indigenous Banking System, Rise of Intermediaries, Transport, Trading Communities: Merchant Corporations, Major Trade Centers, Major Imports and Exports, Position of Indian Sub-Continent in the World Economy.	 To acquaint the History of Trade and Commerce in India
Business – meaning and characteristics	 Understand the meaning of business with special reference to economic and non-

	economic activities.Discuss the characteristics of business.
Business, profession and employment-Concept	 Understand the concept of business, profession and employment. Differentiate between business, profession and employment.
Objectives of business	 Appreciate the economic and social objectives of business. Examine the role of profit in business.
Classification of business activities - Industry and Commerce	 Understand the broad categories of business activities- industry and commerce.
Industry-types: primary, secondary, tertiary Meaning and subgroups	 Describe the various types of industries.
Commerce-trade: (types-internal, external; wholesale and retail) and auxiliaries to trade; (banking, insurance, transportation, warehousing, communication, and advertising) – meaning	 Discuss the meaning of commerce, trade and auxiliaries to trade. Discuss the meaning of different types of trade and auxiliaries to trade. Examine the role of commerce- trade and auxiliaries to trade.
Business risk-Concept	 Understand the concept of risk as a special characteristic of business. Examine the nature and causes of business risks.

Unit 2: Forms of Business organizations

Sole Proprietorship-Concept, merits and limitations.	 List the different forms of business organizations and understand their meaning. Identify and explain the concept, merits and limitations of Sole Proprietorship.
Partnership-Concept, types, merits and limitation of partnership, registration of a partnership firm, partnership deed. Types of partners	 Identify and explain the concept, merits and limitations of a Partnership firm. Understand the types of partnership on the basis of duration and on the basis of liability. State the need for registration of a partnership firm. Discuss types of partners –active, sleeping, secret, nominal and partner by estoppel.
Hindu Undivided Family Business: Concept	 Understand the concept of Hindu Undivided Family Business.
Cooperative Societies-Concept, types, merits, and limitations.	 Identify and explain the concept, merits and limitations of Cooperative Societies. Understand the concept of consumers, producers, marketing, farmers, credit and housing co-operatives.
Company - Concept, merits and limitations; Types: Private, Public and One Person Company – Concept	 Identify and explain the concept, merits and limitations. Understand the concept of private and public companies and one person company. Understand the meaning of one person company.

	 Distinguish between a private company and a public company.
Formation of company - stages, important documents to be used in the formation of a company	 Highlight the stages in the formation of a company. Discuss the important documents used in the various stages in the formation of a company.

Unit 3: Public, Private and Global Enterprises

Public sector and private sector enterprises –	 Develop an understanding of Public sector
Concept	and private sector enterprises
Forms of public sector enterprises: Departmental	 Identify and explain the features, merits and
Undertakings, Statutory Corporations and	limitations of different forms of public sector
Government Company.	enterprises

Unit 4: Business Services

Business services – meaning and types. Banking: Types of bank accounts - savings, current, recurring, fixed deposit and multiple option deposit account	 Understand the meaning and types of business services. Develop an understanding of different types of bank accounts.
Banking services with particular reference to Bank Draft, Bank Overdraft, Cash credit. E-Banking meaning, Types of digital payments	 Develop an understanding of the different services provided by banks
Insurance – Principles. Types – life, health, fire and marine insurance – concept	 Understand Utmost Good Faith, Insurable Interest, Indemnity, Contribution, Doctrine of Subrogation and CausaProxima as principles of insurance Discuss different types of insurance-life, health, fire, marineinsurance

Unit 5: Emerging Modes of Business

E - business: concept, scope and benefits	 Give the meaning of e-business. Discuss the scope of e-business. Appreciate the benefits of e-business Distinguish e-business from traditional business.
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Unit 6: Social Responsibility of Business and Business Ethics

Concept of social responsibility	• State the concept of social responsibility.
Case for social responsibility	• Examine the case for social responsibility.
Responsibility towards owners, investors, consumers, employees, government and community.	 Identify social responsibilities towards different interest groups.
Role of business in environment protection	 Appreciate the role of business in environment protection.

PROJECT WORK IN BUSINESS STUDIES (ONLY ONE PROJECT): GUIDELINES AS GIVEN IN CLASS XII CURRICULUM

	TERM - 2SUBJECTIVE QUESTION PAPERTheory - 40 MarksDURATION:- 2 Hrs		
Devit D			
Part B	Finance and Trade	PERIODS	MARKS
7	Sources of Business Finance	28	20
8	Small Business and Entrepreneurship Development	16	
9	Internal Trade	22	20
10	International Business	04	
	TOTAL	70	40
	PROJECT WORK (PART - 2)		10

TERM II

Part B: Finance and Trade

Unit 7: Sources of Business Finance

Business finance: Concept and Importance	 State the meaning, nature and importance of business finance.
Owners' funds- equity shares, preferences share, retained earnings, Global Depository receipt (GDR), American Depository Receipt (ADR) and International Depository Receipt (IDR) – concept	 Classify the various sources of funds into owners' funds. State the meaning of owners' funds. Understand the meaning of Global Depository receipts, American Depository Receipts and International Depository Receipts.
Borrowed funds: debentures and bonds, loan from financial institution and commercial banks, public deposits, trade credit and	 State the meaning of borrowed funds. Discuss the concept of debentures, bonds, loans from financial institutions and commercial banks, Trade credit Distinguish between owners' funds and borrowed funds.

Unit 8: Small Business and Entrepreneurship Development

Entrepreneurship Development (ED): Concept and Need. Process of Entrepreneurship Development: Start-up India Scheme, ways to fund startup. Intellectual Property Rights and Entrepreneurship	 Understand the concept and need of Entrepreneurship Development (ED), Intellectual Property Rights Understand the process of Entrepreneurship Development
Small scale enterprise – Definition	 Understand the definition of small enterprises
Role of small business in India with special reference to rural areas	 Discuss the role of small scale business in India with special reference to rural areas
Government schemes and agencies for small scale industries: National Small Industries Corporation (NSIC) and District Industrial Centre (DIC) with special reference to rural, backward areas	 Appreciate various schemes of NSIC and DIC with special reference to rural, backward area.

Unit 9: Internal Trade

Internal trade - meaning and types of services rendered by a wholesaler and a retailer	 State the meaning and types of internal trade. Appreciate the services of wholesalers and retailers.
Large scale retailers-Departmental stores, chain stores – concept	 Highlight the distinctive features of departmental stores, chain stores

Unit 10: International Trade

nternational trade: concept and benefits	 Understand the concept of international trade. Describe the benefit of international trade to the nation and business firms.
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PROJECT WORK IN BUSINESS STUDIES (ONLY ONE PROJECT): GUIDELINES AS GIVEN IN CLASS XII CURRICULUM

BUSINESS STUDIES (CODE -054)

CLASS–XII (2021-22) TERM WISE CURRICULUM

Units	TERM 1-MCQ BASED QUESTION PAPERTHEORY - 40 MARKSDURATION: 90 MINUTES	Periods	Marks
Part A	Principles and Functions of Management		
1.	Nature and Significance of Management	12	16
2	Principles of Management	11]
3	Business Environment	08]
4	Planning	08	14
5	Organising	10	
	Total	49	30
Part B	Business Finance and Marketing		
11	Marketing Management	24	10
]
	Total	24	10
	Total	73	40
	PROJECT WORK (PART 1)		10

Term 1:

Part A: Principles and Functions of Management

Unit 1: Nature and Significance of Management

Concept	After going through this unit, the student/ learner would be able to:
Management - concept, objectives, and importance	 Understand the concept of management. Explain the meaning of 'Effectiveness and Efficiency. Discuss the objectives of management. Describe the importance of management
Management as Science, Art and Profession	 Examine the nature of management as a science, art and profession.
Levels of Management	 Understand the role of top, middle and lower levels of management
Management functions-planning, organizing, staffing, directing and controlling	Explain the functions of management
Coordination- concept and importance	 Discuss the concept and characteristics of coordination. Explain the importance of coordination.

Unit 2: Principles of Management

Principles of Management- concept and significance	 Understand the concept of principles of management. Explain the significance of management principles.
Fayol's principles of management	 Discuss the principles of management
	developed by Fayol.
Taylor's Scientific management-	 Explain the principles and techniques of
principles and techniques	'Scientific Management'.

Unit 3: Business Environment

Business Environment- concept and importance	 Understand the concept of 'Business Environment'. Describe the importance of business environment
Dimensions of Business Environment- Economic,	 Describe the various dimensions of
Social, Technological, Political and Legal	'Business Environment'.

Unit 4: Planning

Planning: Concept, importance and limitation	 Understand the concept of planning. Describe the importance of planning. Understand the limitations of planning.
Planning process	 Describe the steps in the process of planning.

Unit 5: Organising

Organising: Concept and importance	 Understand the concept of organizing as a 		
		structure and as a process.	
	•	Explain the importance of organising.	
Organising Process	•	Describe the steps in the process of organizing	
Structure of organisation- functional and	•	Describe functional and divisional structures of	
divisional concept		organisation.	
Delegation: concept, elements and	•	Understand the concept of delegation.	
importance	•	Describe the elements of delegation.	
	•	Appreciate the importance of Delegation.	
Decentralization: concept and	•	Understand the concept of decentralisation.	
importance	•	Explain the importance of decentralisation.	
	•	Differentiate between delegation and	
		decentralisation.	

Part B: Business Finance and Marketing

Unit 11: Marketing

Marketing – Concept, functions and philosophies -	•	Understand the concept of
Product, Prize and Standard		marketing.
	•	Discuss the functions of marketing.

	• Explain the marketing philosophies.		
Marketing Mix – Concept and elements	 Understand the concept of marketing mix. Describe the elements of the marketing mix. 		
Product - branding, labelling and packaging – Concept	 Understand the concept of product as an element of marketing mix. Understand the concepts of branding, labelling and packaging. 		
Price - Concept, Factors determining price	 Understand the concept of price as an element of marketing mix. Describe the factors determining price of a product. 		
Physical Distribution – concept	 Understand the concept of physical distribution. 		
Promotion – Concept and elements; Advertising, Personal Selling, Sales Promotion and Public Relations	 Understand the concept of promotion as an element of marketing mix. Describe the elements of the promotion mix. Understand the concept of advertising and personal selling Understand the concept of sales promotion. Discuss the concept of public relations. 		

PROJECT WORK IN BUSINESS STUDIES (ONLY ONE PROJECT): GUIDELINES AS GIVEN IN CLASS XII CURRICULUM

BUSINESS STUDIES-(CODE-054) CLASS-XII (2021-22) - TERM WISE CURRICULUM

Units	TERM-2 SUBJECTIVE QUESTION PAPER	Periods	Marks	
	Theory- 40 Marks DURATION:-2 Hrs			
Part A	Principles and Functions of Management			
6	Staffing	13		
7	Directing	09	20	
8	Controlling	07		
	Total	29	20	
Part B	Business Finance and Marketing			
9	Financial Management	20	15	
10	Financial Markets	18		
12	Consumer Protection	05	5	
	Total	43	20	
	Total	72	40	
	PROJECT WORK (PART – 2)		10	

Term 2: Principles and Functions of Management

Unit 6: Staffing

Staffing: Concept and importance	 Understand the concept of staffing. Explain the importance of staffing
Staffing process	 Describe the steps in the process of staffing
Recruitment process	 Understand the meaning and steps in the process of recruitment. Discuss the sources of recruitment.
Selection – process	 Understand the meaning of selection. Describe the steps involved in the process of selection.
Training and Development - Concept and importance, Methods of training - on the job and off the job - vestibule training, apprenticeship training and internship training	 Understand the concept of training and development. Appreciate the importance of training to the organisation and to the employees. Discuss on the job and off the job methods of training. Discuss the meaning of vestibule training, apprenticeship training and internship training. Differentiate between training and development.

Unit 7: Directing

Directing: Concept and importance	 Describe the concept of directing. Discuss the importance of directing
Elements of Directing	Describe the various elements of directing
Motivation - concept, Maslow's hierarchy of needs, Financial and non-financial incentives	 Understand the concept of motivation. Develop an understanding of Maslow's Hierarchy of needs. Discuss the various financial and non-financial incentives.
Leadership - concept, styles - authoritative, democratic and laissez faire	 Understand the concept of leadership. Understand the various styles of leadership.
Communication - concept, formal and informal communication;	 Understand the concept of communication Discuss the concept of formal and informal communication.

Unit 8: Controlling

Controlling - Concept and importance	٠	Understand the concept of controlling.
	•	Explain the importance of controlling.
Steps in process of control	•	Discuss the steps in the process of controlling.

Part B: Business Finance and Marketing

Unit 9: Financial Management

Financial Management: Concept, role and objectives	 Understand the concept of financial management. Explain the role of financial management in an organisation. Discuss the objectives of financial management
Financial decisions: investment, financing and dividend- Meaning and factors affecting	 Discuss the three financial decisions and the factors affecting them.
Financial Planning - concept and importance	 Describe the concept of financial planning. Explain the importance of financial planning.
Capital Structure – concept and factors affecting capital structure	 Understand the concept of capital structure. Describe the factors determining the choice of an appropriate capital structure of a company.
Fixed and Working Capital - Concept and factors affecting their requirements	 Understand the concept of fixed and working capital. Describe the factors determining the requirements of fixed and working capital.

Unit 10: Financial Markets

Financial Markets: Concept, Functions and types	 Understand the concept of the financial market. Explain the functions of the financial market. Understand capital market and money market as types of financial markets.
Money market and its instruments	 Understand the concept of the money market. Describe the various money market instruments.
Capital market: Concept, types (primary and secondary), methods of floatation in the primary market	 Discuss the concept of capital market. Explain primary and secondary markets as types of capital market. Differentiate between capital market and money market. Discuss the methods of floating new issues in the primary market. Distinguish between primary and secondary markets.
Stock Exchange – Meaning, Functions and trading procedure	 Give the meaning of a stock exchange. Explain the functions of a stock exchange. Discuss the trading procedure in a stock exchange. Give the meaning of depository services and demat account as used in the trading procedure of securities.
Securities and Exchange Board of India (SEBI) - objectives and functions	 State the objectives of SEBI. Explain the functions of SEBI.

Unit 12: Consumer Protection

Concept and importance of consumer	 Understand the concept of consumer 	
protection	protection. • Describe the importance of	
	consumer protection. • Discuss the scope of	
	Consumer Protection Act, 2019	
The Consumer Protection Act, 2019:	Understand the concept of a consumer according to	
Source:	the Consumer Protection Act, 2019.	
http://egazette.nic.in/WriteReadData/2	 Explain the consumer rights 	
019/210422.pdf	 Understand the responsibilities of consumers 	
Meaning of consumer Rights and	 Understand who can file a complaint and against 	
responsibilities of consumers Who can	whom?	
file a complaint?	 Discuss the legal redressal machinery under 	
Redressal machinery	Consumer Protection Act, 2019.	
Remedies available	• Examine the remedies available to the consumer	
	under Consumer Protection Act,2019s	
Consumer awareness - Role of consumer	• Describe the role of consumer organizations and	
organizations and Non-Governmental	NGOs in protecting consumers' interests.	
Organizations (NGOs)		
PROJECT WORK IN BUSINESS STUDIES (ONLY ONE PROJECT): GUIDELINES AS		

GIVEN IN CLASS XII CURRICULUM

GUIDELINES FOR PROJECT WORK IN BUSINESS STUDIES IN CLASSES XI & XII

MARKS: 20 Marks (10 + 10 MARKS FOR TERM 1 AND TERM 2)

Introduction

The course in Business Studies is introduced at Senior School level to provide students with a sound understanding of the principles and practices bearing in business (trade and industry) as well as their relationship with the society. Business is a dynamic process that brings together technology, natural resources and human initiative in a constantly changing global environment. With the purpose to help them understand the framework within which a business operates, and its interaction with the social, economic, technological and legal environment, the CBSE has introduced Project Work in the Business Studies Syllabus for Classes XI and XII. The projects have been designed to allow students to appreciate that business is an integral component of society and help them develop an understanding of the social and ethical issues concerning them.

The project work also aims to empower the teacher to relate all the concepts with what is happening around the world and the student's surroundings, making them appear more clear and contextual. This will enable the student to enjoy studies and use his free time effectively in observing what's happening around.

By means of Project Work the students are exposed to life beyond textbooks giving them opportunities to refer materials, gather information, analyze it further to obtain relevant information and decide what matter to keep.

One Project to be done throughout the session, as per the existing scheme.

1. The objectives of the project work:

Objectives of project work are to enable learners to:

- probe deeper into personal enquiry , initiate action and reflect on knowledge and skills, views etc. acquired during the course of class XI-XII.
- analyse and evaluate real world scenarios using theoretical constructs and arguments
- demonstrate the application of critical and creative thinking skills and abilities to produce an independent and extended piece of work
- follow up aspects in which learners have interest
- develop the communication skills to argue logically
- 2. <u>Role of the teacher:</u>

The teacher plays a critical role in developing the thinking skills of the learners. A teacher should:

- help each learner select the topic after detailed discussions and deliberations of the topic;
- play the role of a facilitator to support and monitor the project work of the learner through periodic discussions;
- guide the research work in terms of sources for the relevant data;

- ensure that students must understand the relevance and usage of primary evidence and other sources in their projects and duly acknowledge the same;
- ensure that the students are able to derive a conclusion from the content; cite the limitations faced during the research and give appropriate references used in doing the research work.
- educate learners about plagiarism and the importance of quoting the source of the information to ensure authenticity of research work.
- prepare the learner for the presentation of the project work.
- arrange a presentation of the project file.

3. <u>Steps involved in the conduct of the project:</u>

Students may work upon the following lines as a suggested flow chart:

Choose a title/topic

Collection of the research material/data

Organization of material/data

Present material/data

Analysing the material/data for conclusion

Draw the relevant conclusion

Presentation of the Project Work

- The project work can be in the form of PowerPoint Presentation/Exhibition/Skit /albums/files/song and dance or culture show /story telling/debate/panel discussion, paper presentation and so on. Any of these activities which are suitable to visually impaired/differently-abled candidates can be performed as per the choice of the student.
- 4. Expected Checklist for the Project Work:
 - Introduction of topic/title
 - Identifying the causes, events, consequences and/or remedies
 - Various stakeholders and effect on each of them
 - Advantages and disadvantages of situations or issues identified
 - Short-term and long-term implications of strategies suggested in the course of research
 - Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file
 - Presentation and writing that is succinct and coherent in project file
 - Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

5. <u>Term-Wise Assessment of Project Work</u>:

- Project Work has broadly the following phases: Synopsis/ Initiation, Data Collection, Data Analysis and Interpretation, Conclusion.
- The aspects of the project work to be covered by students can be assessed during the two terms.

TERM-I PROJECT WORK (Part 1): 10 Marks

The teacher will assess the progress of the project work in the term I in the following manner:

Month	Periodic Work	Assessment Rubrics	Marks
1-3 July-September	Instructions about Project Guidelines, Background reading Discussions on Theme and Selection of the Final Topic, Initiation/ Synopsis	Introduction, Statement of Purpose/Need and Objective of the Study, Hypothesis/Research Question, Review of Literature, Presentation of Evidence, Key Words, Methodology, Questionnaire, Data Collection.	5
4-5 October- November	Planning and organisation: forming an action plan, feasibility or baseline study, Updating/modifying the action plan, Data Collection	Significance and relevance of the topic; challenges encountered while conducting the research.	5
October- November	Midterm Assessment by internal examiner		10

TERM- II - PROJECT WORK (Part 2): 10 Marks

The teacher will assess the progress of the project work in the term II in the following manner:

Month	Periodic Work	Assessment Rubrics	Marks
6-7	Content/data analysis and	Content analysis and its relevance in the	
December-	interpretation.	current scenario.	5
January	Conclusion, Limitations, Suggestions, Bibliography, Annexures and Overall Presentation of the project.	Conclusion, Limitations, Bibliography, Annexures and Overall Presentation.	
8	Final Assessment and VIVA by both	External/ Internal Viva based on the	5
January/ February	Internal and External Examiners	project	
		TOTAL	10

6. <u>Viva-Voce</u>

- At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.
- The questions should be asked from the Research Work/ Project File of the learner.
- The Internal Examiner should ensure that the study submitted by the learner is his/her own original work.
- In case of any doubt, authenticity should be checked and verified.

CLASS XI

The teacher should help students to identify any one project from the given topics.

The project may be done in a group or individually.

20 marks assigned for Project Work will be divided into two terms for 10 marks each.

I. Project One: Field Visit

The objective of introducing this project among the students is to give a first hand experience to them regarding the different types of business units operating in their surroundings, to observe their features and activities and relate them to the theoretical knowledge given in their textbooks. The students should select a place of field visit from the following: – (Add more as per local area availability.)

- 1. Visit to a Handicraft unit.
- 2. Visit to an Industry.
- 3. Visit to a Wholesale market (vegetables, fruits, flowers, grains, garments, etc.)
- 4. Visit to a Departmental store.
- 5. Visit to a Mall.

The following points should be kept in mind while preparing this visit.

- 1. Select a suitable day free from rush/crowd with lean business hours.
- 2. The teacher must visit the place first and check out on logistics. It's better to seek permission from the concerned business- incharge.
- 3. Visit to be discussed with the students in advance. They should be encouraged to prepare a worksheet containing points of observation and reporting.
- 4. Students may carry their cameras (at their own risk) with prior permission for collecting evidence of their observations.

1. Visit to a Handicraft Unit

The purpose of visiting a Handicraft unit is to understand nature and scope of its business, stakeholders involved and other aspects as outlined below

a) The raw material and the processes used in the business: People /parties/firms from which they obtain their raw material.

b) The market, the buyers, the middlemen, and the areas covered. c) The countries to which exports are made.

d) Mode of payment to workers, suppliers etc.

e) Working conditions.

f) Modernization of the process over a period of time.

g) Facilities, security and training for the staff and workers.

h) Subsidies available/ availed.

i) Any other aspect that the teachers deem fit.

2. Visit to an Industry.

The students are required to observe the following:

a) Nature of the business organisation.

b) Determinants for location of business unit.

c) Form of business enterprise: Sole Proprietorship, Partnership, Undivided Hindu Family, Joint Stock Company (a Multinational Company).

d) Different stages of production/process

e) Auxiliaries involved in the process.

f) Workers employed, method of wage payment, training programmes and facilities available.

g) Social responsibilities discharged towards workers, investors, society, environment and government.

h) Levels of management.

i) Code of conduct for employers and employees.

j) Capital structure employed- borrowed v/s owned.

k) Quality control, recycling of defective goods.

I) Subsidies available/availed.

m) Safety Measures employed.

n) Working conditions for labour in observation of Labour Laws.

o) Storage of raw material and finished goods.

p) Transport management for employees, raw material and finished goods.

q) Functioning of various departments and coordination among them (Production, Human Resource, Finance and Marketing)

r) Waste Management.

s) Any other observation.

3. Visit to a wholesale market: vegetables/fruits/flowers/grains/garments etc.

The students are required to observe the following:

a) Sources of merchandise.

b) Local market practices.

c) Any linked up businesses like transporters, packagers, money lenders, agents, etc.

d) Nature of the goods dealt in.

e) Types of buyers and sellers.

f) Mode of the goods dispersed, minimum quantity sold, types of packaging employed.

g) Factors determining the price fluctuations.

h) Seasonal factors (if any) affecting the business.

i) Weekly/ monthly non-working days.

j) Strikes, if any- causes thereof.

k) Mode of payments.

I) Wastage and disposal of dead stock.

m) Nature of price fluctuations, reason thereof.

n) Warehousing facilities available\availed.

o) Any other aspect.

4. Visit to a Departmental store

The students are required to observe the following:

- a) Different departments and their layout.
- b) Nature of products offered for sale.
- c) Display of fresh arrivals.
- d) Promotional campaigns.
- e) Spaces and advertisements.
- f) Assistance by Sales Personnel.

g) Billing counter at store – Cash, Credit Card/ Debit Card, swipe facility. Added attractions and facilities at the counter.

- h) Additional facilities offered to customers
- i) Any other relevant aspect.

5. Visit to a Mall.

The students are required to observe the following:

a) Number of floors, shops occupied and unoccupied.

- b) Nature of shops, their ownership status
- c) Nature of goods dealt in: local brands, international brands,
- d) Service business shops- Spas, gym, saloons etc.
- e) Rented spaces, owned spaces,
- f) Different types of promotional schemes.
- g) Most visited shops.
- h) Special attractions of the Mall- Food court, Gaming zone or Cinema etc.
- i) Innovative facilities.
- j) Parking facilities. Teachers may add more to the list.

II. Project Two: Case Study on a Product

- a) Take a product having seasonal growth and regular demand with which students can relate. For example,
 - Apples from Himachal Pradesh, Kashmir.
 - Oranges from Nagpur,
 - Mangoes from Maharashtra/U.P./Bihar/Andhra Pradesh etc.
 - Strawberries from Panchgani,
 - Aloe vera from Rajasthan,
 - Walnuts/almonds from Kashmir,
 - Jackfruit from South,
 - Guavas from Allahabad,
 - Pineapples from North East India,
 - Tea from Assam,
 - Orchids from Sikkim and Meghalaya,
 - Pottery of Manipur,
 - Fishes from coastal areas.

Students may develop a Case Study on the following lines:

- (i) Research for change in price of the product. For example, apples in Himachal Pradesh during plucking and non plucking season.
- (ii) Effect on prices in the absence of an effective transport system.
- (iii) Effect on prices in the absence of suitable warehouse facilities.
- (iv) Duties performed by the warehouses.
- (v) Demand and supply situation of the product during harvesting season, prices near the place of origin and away.

Students may be motivated to find out the importance of producing and selling these products and their processed items along with the roles of Transport, Warehousing, Advertising, Banking, Insurance, Packaging, Wholesale selling, Retailing, Co-operative farming, Co-operative marketing etc.

The teacher may develop the points for other projects on similar lines for students to work on.

The teacher may assign this project as 'group' project and may give different products to different groups. It could conclude in the form of an exhibition.

III. Project Three: Aids to Trade

Taking any one AID TO TRADE, for example Insurance and gathering information on following aspects

1. History of Insurance Lloyd's contribution.

- 2. Development of regulatory Mechanism.
- 3. Insurance Companies in India
- 4. Principles of Insurance.

5. Types of Insurance. Importance of insurance to the businessmen.

6. Benefits of crop, orchards, animal and poultry insurance to the farmers.

7. Terminologies used (premium, face value, market value, maturity value, surrender value) and their meanings.

8. Anecdotes and interesting cases of insurance. Reference of films depicting people committing fraudulent acts with insurance companies.

9. Careers in Insurance.

Teachers develop such aspects for other aids to trade.

IV. Project Four: Import / Export Procedure

Any one from the following

1. Import /Export procedure

The students should identify a product of their city/country which is imported /exported. They are required to find the details of the actual import/export procedure. They may take help from the Chambers of Commerce, Banker, existing Importers/Exporters, etc.

They should find details of the procedure and link it with their Text knowledge.

The specimens of documents collected should be pasted in the Project file with a brief description of each. They may also visit railway godowns/dockyards/ transport agencies and may collect pictures of the same.

Presentation and submission of project report.

At the end of the stipulated term, each student will prepare and submit his/her project report. Following essentials are required to be fulfilled for its preparation and submission.

1. The total project will be in a file format, consisting of the recordings of the value of shares and the graphs.

- 2. The project will be handwritten.
- 3. The project will be presented in a neat folder.
- 4. The project report will be developed in the following sequence-
 - □ Cover page should project the title, student information, school and year.
 - □ List of contents.

Acknowledgements and preface (acknowledging the institution, the news papers read, T.V. channels viewed, places visited and persons who have helped).
 Introduction.

□ Topic with suitable heading.

□ Planning and activities done during the project, if any.

□ Observations and findings while conducting the project.

□ News paper clippings to reflect the changes of share prices.

□ Conclusions (summarised suggestions or findings, future scope of study).

□ Appendix (if needed).

□ Teachers report.

□ Teachers will initial preface page.

 \Box At the completion of the evaluation of the project, it will be punched in the centre so that the report cannot be reused but is available for reference only.

□ The projects will be returned after evaluation. The school may keep the best projects.

V. Project Five: A visit to any State Emporium (other than your school state).

The purpose of this project is that it leads to -

Development of deeper understanding of the diversity of products in the states like Assam, Tripura, Nagaland, Mizoram, Manipur, Meghalaya, Sikkim, Arunachal Pradesh, Jammu and Kashmir, Kerala, Chhattisgarh, Telangana, Andhra Pradesh and other states of the country.

□ Sensitization and orientation of students about other states, their trade, business and commerce,

□ Understanding the cultural and socio-economic aspects of the state by the students,

□ Developing the understanding of role of folk art, artisanship and craftsmanship of the state in its growth and economic development

□ Understanding the role of gifts of nature and natural produce in the development of trade, business and commerce

□ Understanding the role of vocational skills and abilities on the livelihood of artisans/ craftsman

□ Understanding of entrepreneurial skills and abilities of the artisans/craftsman

□ Understanding of the unemployment problem of the state and role of art and craft of the state in generating employment opportunities

□ Value aspect -

□ Sense of gratitude - by appreciating the contributions made by others in the betterment of our lives

□ Appreciating the dignity of work

□ Sensitivity towards social, cultural, ethical and religious differences Benefits of social harmony and peace

□ Understanding and appreciating the unity in diversity in India

□ Appreciating differences in race, skin colour, languages, religion, habits, festivals, clothing coexistence

Presentation and Submission of Project Report

At the end of the stipulated term, each student will prepare and submit his/her project report.

Following essentials are required to be fulfilled for its preparation and submission.

1. Nature of the business organisation (emporium)

2. Determinants for location of the concerned emporium

3. Is the space rented or owned

- 4. Nature of the goods dealt in
- 5. Sources of merchandise of the emporium
- 6. Role of co-operative societies in the manufacturing and/or marketing of the merchandise
- 7. Role of gifts of nature or natural produce in the development of goods/merchandise
- 8. Types of buyers and sellers

9. Modes of goods dispersed, minimum quantity sold and type of carrying bag or package used for delivery of the products sold

10. Factors determining the pricing at the emporium

11. Comparison between the prices of goods available at the emporium with the prices in the open market. Also highlight probable causes of variations if any.

- 12. Kind of raw material available naturally, used in making the products
- 13. The technique used in making the products i.e., hand made or machine made
- 14. Has the child labour being used in making the products sold at the emporium
- 15. Are the products eco-friendly, in terms of manufacturing, disposal and packing
- 16. Seasonal factors if any affecting the business of the emporium
- 17. Weekly/ Monthly non-working days
- 18. Mode of billing and payments Cash, Credit Card/ Debit Card, Swipe facility.
- 19. Does the emporium sell its merchandise in installment / deferred payment basis
- 20. Do they provide home delivery and after sales services?
- 21. Different types of promotional campaigns / schemes
- 22. Assistance by Sales Personnel
- 23. Export orientation of this emporium and procedure used
- 24. Policies related to damaged/ returned goods
- 25. Any government facility available to the emporium
- 26. Warehousing facilities available / availed
- 27. Impact of tourism on the business of emporium
- 28. Additional facility offered to customers
- 29. Any Corporate Social Responsibility (CSR) assumed by the emporium
- 30. Contribution made by the emporium to its locality

CLASS XII

The teacher should help students to identify any one project from the given topics.

Students are supposed to select one unit out of four and are required to make only ONE project from the selected unit.

20 marks assigned for Project Work will be divided into two terms for 10 marks each.

I. Project One: Elements of Business Environment

The teachers should help the students in selecting any one element of the following:

1. Changes witnessed over the last few years on mode of packaging and its economic impact. The teacher may guide the students to identify the following changes:

a) The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for above changes.

b) Milk being supplied in glass bottles, later in plastic bags and now in tetrapack and through vending machines.

c) Plastic furniture [doors and stools] gaining preference over wooden furniture.

d) The origin of cardboard and the various stages of changes and growth.

e) Brown paper bags packing recycled paper bags to plastic bags and cloth bags.

f) Reuse of packaging [bottles, jars and tins] to attract customers for their products.

g) The concept of pyramid packaging for milk.

h) Cost being borne by the consumer/manufacturer.

i) Packaging used as means of advertisements.

2. The reasons behind changes in the following:

Coca – Cola and Fanta in the seventies to Thumbs up and Campa Cola in the eighties to Pepsi and Coke in the nineties.

The teacher may guide the students to the times when India sold Coca Cola and Fanta which were being manufactured in India by the foreign companies.

The students may be asked to enquire about

a) Reasons for stopping the manufacturing of the above mentioned drinks in India THEN.

b) The introduction of Thums up and Campa cola range.

c) Re-entry of Coke and introduction of Pepsi in the Indian market.

d) Factors responsible for the change.

e) Other linkages with the above.

f) Leading brands and the company having the highest market share.

g) Different local brands venturing in the Indian market.

h) The rating of the above brands in the market.

i) The survival and reasons of failure in competition with the international brands.

j) Other observations made by the students

The teacher may develop the following on the above lines

3. Changing role of the women in the past 25 years relating to joint families, nuclear families, women as bread earners of the family, changes in the requirement trend of mixers, washing machines, microwave and standard of living.

4. The changes in the pattern of import and export of different Products.

5. The trend in the changing interest rates and their effect on savings.

6. A study on child labour laws, its implementation and consequences.

7. The state of 'anti plastic campaign,' the law, its effects and implementation.

8. The laws of mining /setting up of industries, rules and regulations, licences required for running that business.

9. Social factors affecting acceptance and rejection of an identified product. (Dish washer, Atta maker, etc)

10. What has the effect of change in the environment on the types of goods and services? The students can take examples like:

a) Washing machines, microwaves, mixers and grinder.

b) Need for crèche, day care centre for young and old.

c) Ready to eat food, eating food outside, and tiffin centres.

11. Change in the man-machine ratio with technological advances resulting in change of cost structure.

12. Effect of changes in the technological environment on the behaviour of employees.

II. Project Two: Principles of Management

The students are required to visit any one of the following:

1. A departmental store.

2. An Industrial unit.

3. A fast food outlet.

4. Any other organisation approved by the teacher.

They are required to observe the application of the general Principles of management advocated by Fayol.

Fayol's principles

1. Division of work.

- 2. Unity of command.
- 3. Unity of direction.
- 4. Scalar chain
- 5. Espirit de corps
- 6. Fair remuneration to all.
- 7. Order.
- 8. Equity.
- 9. Discipline
- 10. Subordination of individual interest to general interest.
- 11. Initiative.
- 12. Centralisation and decentralisation.
- 13. Stability of tenure.

OR

They may enquire into the application of scientific management techniques by F.W. Taylor in the unit visited.

Scientific techniques of management.

- 1. Functional foremanship.
- 2. Standardisation and simplification of work.
- 3. Method study.
- 4. Motion Study.
- 5. Time Study.
- 6. Fatigue Study
- 7. Differential piece rate plan.

Tips to teacher

(i) The teacher may organize this visit.

(ii) The teacher should facilitate the students to identify any unit of their choice and guide them to identify the principles that are being followed.

(iii) Similarly they should guide the students to identify the techniques of scientific

management implemented in the organisation.

(iv) It may be done as a group activity.

- $\left(v\right)$ The observations could be on the basis of
 - $\hfill\square$ The different stages of division of work resulting to specialisation.
 - □ Following instructions and accountability of subordinates to higher authorities.
 - □ Visibility of order and equity in the unit.
 - □ Balance of authority and responsibility.
 - □ Communication levels and pattern in the organisation.

□ Methods and techniques followed by the organisation for unity of direction and coordination amongst all.

□ Methods of wage payments followed. The arrangements of fatigue study.

- □ Derivation of time study.
- □ Derivation and advantages of method study.
- □ Organisational chart of functional foremanship.
- □ Any other identified in the organisation

vi. It is advised that students should be motivated to pick up different areas of visit. As presentations of different areas in the class would help in better understanding to the other students.

vii. The students may be encouraged to develop worksheets. Teachers should help students to prepare observation tools to be used for undertaking the project.

Examples; worksheets, questionnaires, interviews and organisational charts etc.

III. Project Three: Stock Exchange

The purpose of this project is to teach school students the values of investing and utilising the stock market. This project also teaches important lessons about the economy, mathematics and financial responsibility.

The basis of this project is to learn about the stock market while investing a specified amount of fake money in certain stocks. Students then study the results and buy and sell as they see fit.

This project will also guide the students and provide them with the supplies necessary to successfully monitor stock market trends and will teach students how to calculate profit and loss on stock.

The project work will enable the students to:

- understand the topics like sources of business finance and capital market
- □ understand the concepts used in stock exchange
- □ inculcate the habit of watching business channels, reading business

journals/newspapers and seeking information from their elders.

The students are expected to:

a) Develop a brief report on History of Stock Exchanges in India. (your country)

b) Prepare a list of at least 25 companies listed on a Stock Exchange.

c) To make an imaginary portfolio totalling a sum of Rs. 50,000 equally in any of the 5 companies of their choice listed above over a period of twenty working days.

The students may be required to report the prices of the stocks on a daily basis and present it diagrammatically on the graph paper.

□ They will understand the weekly holidays and the holidays under the Negotiable Instruments Act.

They will also come across terms like closing prices, opening prices, etc.

□ During this period of recording students are supposed to distinctively record the daily and starting and closing prices of the week other days under the negotiable instrument act so that they acquire knowledge about closing and opening prices.

□ The students may conclude by identifying the causes in the fluctuations of prices. Normally it would be related to the front page news of the a business journal, for example,

- \Box Change of seasons.
- □ Festivals.
- \Box Spread of epidemic.
- □ Strikes and accidents
- □ Natural and human disasters.
- □ Political environment.
- □ Lack of faith in the government policies.
- □ Impact of changes in government policies for specific industry.
- □ International events.
- □ Contract and treaties at the international scene.
- □ Relations with the neighbouring countries.
- □ Crisis in developed countries, etc.

The students are expected to find the value of their investments and accordingly rearrange their portfolio. The project work should cover the following aspects;

1. Graphical presentation of the share prices of different companies on different dates.

2. Change in market value of shares due to change of seasons, festivals, natural and human disasters.

3. Change in market value of shares due to change in political environment/ policies of various countries/crisis in developed countries or any other reasons

4. Identify the top ten companies out of the 25 selected on the basis of their market value of shares.

It does not matter if they have made profits or losses.

IV. Project Four: Marketing

- 1. Adhesives
- 2. Air conditioners
- 3. Baby diapers
- 4. Bathing Soap
- 5. Bathroom cleaner
- 6. Bike
- 7. Blanket
- 8. Body Spray
- 9. Bread
- 10. Breakfast cereal
- 11. Butter
- 12. Camera
- 13. Car
- 14. Cheese spreads
- 15. Chocolate
- 16. Coffee
- 17. Cosmetology product
- 18. Crayons
- 19. Crockery
- 20. Cutlery
- 21. Cycle
- 22. DTH
- 23. Eraser
- 24. e-wash
- 25. Fairness cream
- 26. Fans
- 27. Fruit candy
- 28. Furniture
- 29. Hair Dve
- 30. Hair Oil
- 31. Infant dress
- 32. Inverter
- 33. Jams
- 34. Jeans
- 35. Jewellery
- 36. Kurti
- 37. Ladies bag
- 38. Ladies footwear
- 39. Learning Toys

40. Lipstick

- 41. Microwave oven
- 42. Mixers
- 43. Mobile
- 44. Moisturizer
- 45. Music player
- 46. Nail polish
- 47. Newspaper
- 48. Noodles
- 49. Pen
- 50. Pen drive
- 51. Pencil
- 52. Pickles
- 53. Razor
- 54. Ready Soups
- 55. Refrigerator
- 56. RO system
- 57. Roasted snacks
- 58. Salt
- 59. Sarees
- 60. Sauces/ Ketchup
- 61. Shampoo
- 62. Shaving cream
- 63. Shoe polish
- 64. Shoes
- 65. Squashes
- 66. Suitcase/ airbag
- 67. Sunglasses
- 68. Tea
- 69. Tiffin Wallah
- 70. Toothpaste
- 71. Wallet
- 72. Washing detergent
- 73. Washing machine
- 74. Washing powder
- 75. Water bottle
- 76. Water storage tank
- 77. Wipes

Any more as suggested by the teacher.

The teacher must ensure that the identified product should not be items whose consumption/use is discouraged by the society and government like alcohol products/pan masala and tobacco products, etc.

Identify one product/service from the above which the students may like to manufacture/provide [pre-assumption].

Now the students are required to make a project on the identified product/service keeping in mind the following:

1. Why have they selected this product/service?

- 2. Find out '5' competitive brands that exist in the market.
- 3. What permission and licences would be required to make the product?
- 4. What are your competitors' Unique Selling Propositions?[U.S.P.]?
- 5. Does your product have any range of details?
- 6. What is the name of your product?
- 7. Enlist its features.
- 8. Draw the 'Label' of your product.
- 9. Draw a logo for your product.
- 10. Draft a tagline.
- 11. What is the selling price of your competitor's product?
- (i) Selling price to consumer
- (ii) Selling price to retailer
- (iii) Selling price to wholesaler

What is the profit margin in percentage to the

- □ Manufacturer.
- Wholesaler.
- □ Retailer.
- 12. How will your product be packaged?
- 13. Which channel of distribution are you going to use? Give reasons for selection?
- 14. Decisions related to warehousing, state reasons.
- 15. What is going to be your selling price?
 - (i) To consumer
 - (ii) To retailer
 - (iii) To wholesaler
- 16. List 5 ways of promoting your product.
- 17. Any schemes for
 - (i) The wholesaler
 - (ii) The retailer
 - (iii) The consumer
- 18. What is going to be your 'U.S.P?
- 19. What means of transport will you use and why?
- 20. Draft a social message for your label.
- 21. What cost effective techniques will you follow for your product?
- 22. What cost effective techniques will you follow for your promotion plan?
- At this stage the students will realise the importance of the concept of marketing mix and the necessary decision regarding the four P's of marketing.
 - □ Product
 - □ Place
 - □ Price
 - □ Promotion

On the basis of the work done by the students the project report should include the following:

1. Type of product /service identified and the (consumer/industries) process involved therein.

- 2. Brand name and the product.
- 3. Range of the product.
- 4. Identification mark or logo.
- 5. Tagline.
- 6. Labelling and packaging.
- 7. Price of the product and basis of price fixation.

8. Selected channels of distribution and reasons thereof.

 Decisions related to transportation and warehousing. State reasons.
 Promotional techniques used and starting reasons for deciding the particular technique.

11. Grading and standardisation

ECONOMICS (Code No. 030) (2021-22)

Rationale

Economics is one of the social sciences, which has great influence on every human being. As economic life and the economy go through changes, the need to ground education in children's own experience becomes essential. While doing so, it is imperative to provide them opportunities to acquire analytical skills to observe and understand the economic realities.

At senior secondary stage, the learners are in a position to understand abstract ideas, exercise the power of thinking and to develop their own perception. It is at this stage, the learners are exposed to the rigour of the discipline of economics in a systematic way.

The economics courses are introduced in such a way that in the initial stage, the learners are introduced to the economic realities that the nation is facing today along with some basic statistical tools to understand these broader economic realities. In the later stage, the learners are introduced to economics as a theory of abstraction.

The economics courses also contain many projects and activities. These will provide opportunities for the learners to explore various economic issues both from their day-to-day life and also from issues, which are broader and invisible in nature. The academic skills that they learn in these courses would help to develop the projects and activities. The syllabus is also expected to provide opportunities to use information and communication technologies to facilitate their learning process.

Objectives:

- Understanding of some basic economic concepts and development of economic reasoning which the learners can apply in their day-to-day life as citizens, workers and consumers.
- Realisation of learners' role in nation building and sensitivity to the economic issues that the nation is facing today.
- Equipment with basic tools of economics and statistics to analyse economic issues. This is pertinent for even those who may not pursue this course beyond senior secondary stage.
- Development of understanding that there can be more than one view on any economic issue and necessary skills to argue logically with reasoning.

ECONOMICS (Code No. 030) (2021-22) CLASS XI - TERM-WISE CURRICULUM

Units	TERM 1 - MCQ BASED QUESTION PAPER	Marks
	Theory: 40 Marks Time: 90 minutes	
Part A	Statistics for Economics	
	Introduction	4
	Collection, Organisation and Presentation of Data	9
	Statistical Tools and Interpretation – Arithmetic Mean, Median	10
	and Mode	
	Sub Total	23
Part B	Introductory Microeconomics	
	Introduction	4
	Consumer's Equilibrium and Demand	13
	Sub Total	17
	Total	40 marks
Part C	Project Work (Part 1): 10 Marks	

Students would prepare only ONE project in the entire academic session, which is divided into 2 terms i.e. Term I and Term II.

TERM 1

Part A: Statistics for Economics

Unit 1: Introduction

What is Economics?

Meaning, scope, functions and importance of statistics in Economics

Unit 2: Collection, Organisation and Presentation of data

Collection of data - sources of data - primary and secondary; how basic data is collected with concepts of Sampling; methods of collecting data; some important sources of secondary data: Census of India and National Sample Survey Organisation.

Organisation of Data: Meaning and types of variables; Frequency Distribution.

Presentation of Data: Tabular Presentation and Diagrammatic Presentation of Data:(i) Geometric forms (bar diagrams and pie diagrams), (ii) Frequency diagrams (histogram, polygon and Ogive) and (iii) Arithmetic line graphs (time series graph).

Unit 3: Statistical Tools and Interpretation

Measures of Central Tendency- Arithmetic mean, median and mode

Part B: Introductory Microeconomics

Unit 4: Introduction

Meaning of microeconomics and macroeconomics; positive and normative economics

What is an economy? Central problems of an economy: what, how and for whom to produce; opportunity cost.

Unit 5: Consumer's Equilibrium and Demand

Consumer's equilibrium - meaning of utility, marginal utility, law of diminishing marginal utility, conditions of consumer's equilibrium using marginal utility analysis.

Indifference curve analysis of consumer's equilibrium-the consumer's budget (budget set and budget line), preferences of the consumer (indifference curve, indifference map) and conditions of consumer's equilibrium.

Demand, market demand, determinants of demand, demand schedule, demand curve and its slope, movement along and shifts in the demand curve; price elasticity of demand - factors affecting price elasticity of demand; measurement of price elasticity of demand – percentage-change method.

Units	TERM 2 - SUBJECTIVE QUESTION PAPER	Marks
	Theory: 40 Marks Time: 2 Hours	
Part A	Statistics for Economics	
	Statistical Tools and Interpretation – Measures of Dispersion,	17
	Correlation, Index Number	
	Sub	17

Part C: Project in Economics - Guidelines as given in class XII curriculum

	Correlation, Index Number	17
	Sub	17
	Total	
Part B	Introductory Microeconomics	
	Producer Behaviour and Supply	13
	Forms of Market and Price Determination under perfect competition with simple applications	10
	Sub Total	23
	Total	40 marks
Part C	Project Work (Part 2): 10 Marks	
Part A: Statistics for Economics

Unit 3: Statistical Tools and Interpretation

Measures of Dispersion - absolute dispersion standard deviation); relative dispersion coefficient of variation)

Correlation – meaning and properties, scatter diagram; Measures of correlation - Karl Pearson's method (two variables ungrouped data)

Introduction to Index Numbers - meaning, types - wholesale price index, consumer price index, uses of index numbers; Inflation and index numbers.

Part B: Introductory Microeconomics

Unit 6: Producer Behaviour and Supply

Meaning of Production Function – Short-Run and Long-Run Total Product, Average Product and Marginal Product.

Returns to a Factor

Cost: Short run costs - total cost, total fixed cost, total variable cost; Average cost; Average fixed cost, average variable cost and marginal cost-meaning and their relationships.

Revenue - total, average and marginal revenue - meaning and their relationship.

Supply, market supply, determinants of supply, supply schedule, supply curve and its slope, movements along and shifts in supply curve, price elasticity of supply; measurement of price elasticity of supply - percentage-change method.

Unit 7: Forms of Market and Price Determination under Perfect Competition with simple applications.

Perfect competition - Features; Determination of market equilibrium and effects of shifts in demand and supply.

Simple Applications of Demand and Supply: Price ceiling, price floor.

Part C: Project in Economics - Guidelines as given in class XII curriculum

ECONOMICS (Code No. 030) (2021-22) CLASS XII - TERM-WISE CURRICULUM

TERM 1 - MCQ BASED QUESTION PAPER Theory: 40 Marks Time: 90 minutes	Marks	Periods
Part A: Introductory Macroeconomics		
Money and Banking	6	8
Government Budget and the Economy	6	15
Balance of Payments	6	7
Sub Total	18	30
Part B: Indian Economic Development		
 Development Experience (1947-90) and Economic Reforms since 1991: Indian Economy on the eve of Independence Indian Economy (1950-90) Liberalisation, Privatisation and Globalisation : An Appraisal 	12	28
 Current challenges facing Indian Economy Poverty Human Capital Formation Rural development 		17
Sub Total	22	45
Total	40	75
Project Work (Part 1): 10 Marks		

Students would prepare only ONE project in the entire academic session, which is divided into 2 terms i.e. Term I and Term II.

<u>Term 1</u>

Part A: Introductory Macroeconomics

Unit 2: Money and Banking

Money - meaning and supply of money - Currency held by the public and net demand deposits held by commercial banks.

Money creation by the commercial banking system.

Central bank and its functions (example of the Reserve Bank of India): Bank of issue, Govt. Bank, Banker's Bank, Control of Credit

Unit 4: Government Budget and the Economy

Government budget - meaning, objectives and components. Classification of receipts - revenue receipts and capital receipts; classification of expenditure – revenue expenditure and capital expenditure.

8 Periods

15 Periods

5

Unit 5: Balance of Payments

Balance of payments account - meaning and components; Foreign exchange rate - meaning of fixed and flexible rates and managed floating.

Part B: Indian Economic Development

Unit 6: Development Experience (1947-90) and Economic Reforms since 1991 28 Periods

A brief introduction of the state of Indian economy on the eve of independence. Indian economic system and common goals of Five Year Plans. Main features, problems and policies of agriculture (institutional aspects and new agricultural strategy), industry (IPR 1956; SSI – role & importance) and foreign trade.

Economic Reforms since 1991:

Features and appraisals of liberalisation, globalisation and privatisation (LPG policy); Concepts of demonetization and GST

Unit 7: Current challenges facing Indian Economy

Poverty- absolute and relative; Main programmes for poverty alleviation: A critical assessment;

Human Capital Formation: How people become resource; Role of human capital in economic development;

Rural development: Key issues - credit and marketing - role of cooperatives; agricultural diversification;

TERM 2 - SUBJECTIVE QUESTION PAPER Theory: 40 Marks Time: 2 Hours	Marks	Periods
Part A: Introductory Macroeconomics		
 National Income and Related Aggregates 	10	23
 Determination of Income and Employment 	12	22
Sub Total	22	45
Part B: Indian Economic Development		
 Current challenges facing Indian Economy Employment Infrastructure Sustainable Economic Development 	12	18
 Development Experience of India – A Comparison with Neighbours- Comparative Development Experience of India and its Neighbours 	06	12
Sub Total	18	30
Total	40	75
Project Work: 10 Marks		

17 Periods

Term – II

Part A: Introductory Macroeconomics

Unit 1: National Income and Related Aggregates

What is Macroeconomics?

Basic concepts in macroeconomics: consumption goods, capital goods, final goods, intermediate goods; stocks and flows; gross investment and depreciation.

Circular flow of income (two sector model); Methods of calculating National Income - Value Added or Product method, Expenditure method, Income method.

Aggregates related to National Income:

Gross National Product (GNP), Net National Product (NNP), Gross Domestic Product (GDP) and Net Domestic Product (NDP) - at market price, at factor cost; Real and Nominal GDP. GDP and Welfare

Unit 3: Determination of Income and Employment

Aggregate demand and its components.

Propensity to consume and propensity to save (average and marginal).

Short-run equilibrium output; investment multiplier and its mechanism.

Meaning of full employment and involuntary unemployment.

Problems of excess demand and deficient demand; measures to correct them - changes in government spending, taxes and money supply through Bank Rate, CRR, SLR, Repo Rate and Reverse Repo Rate, Open Market Operations, Margin requirement.

Part B: Indian Economic Development

Unit 7: Current challenges facing Indian Economy

Employment: Growth and changes in work force participation rate in formal and informal sectors; problems and policies

Infrastructure: Meaning and Types: Case Studies: Health: Problems and Policies- A critical assessment;

Sustainable Economic Development: Meaning, Effects of Economic Development on Resources and Environment, including global warming

Unit 8: Development Experience of India:

A comparison with neighbours India and Pakistan India and China Issues: economic growth, population, sectoral development and other Human Development Indicators

Part C: Project in Economics

Prescribed Books:

1. Statistics for Economics, NCERT

2. Indian Economic Development, NCERT

- 3. Introductory Microeconomics, NCERT
- 4. Macroeconomics, NCERT

5. Supplementary Reading Material in Economics, CBSE

12 Periods

18 Periods

23 Periods

22 Periods

15 Periods

Guidelines for Project Work: 20 Marks (ECONOMICS)

Only **ONE** Project is to be done throughout the session.

1. The objectives of the project work:

Objectives of project work are to enable learners to:

- Probe deeper into personal enquiry, initiate action and reflect on knowledge and skills, views etc. acquired during the course of class XI-XII.
- analyse and evaluate real world scenarios using theoretical constructs and arguments
- demonstrate the application of critical and creative thinking skills and abilities to produce an independent and extended piece of work
- follow up aspects in which learners have interest
- develop the communication skills to argue logically

2. Role of the teacher:

The teacher plays a critical role in developing thinking skills of the learners. A teacher should:

- help each learner select the topic after detailed discussions and deliberations of the topic;
- play the role of a facilitator to support and monitor the project work of the learner through periodic discussions;
- guide the research work in terms of sources for the relevant data;
- ensure that students must understand the relevance and usage of primary evidence and other sources in their projects and duly acknowledge the same;
- ensure that the students are able to derive a conclusion from the content; cite the limitations faced during the research and give appropriate references used in doing the research work.
- educate learner about plagiarism and the importance of quoting the source of the information to ensure authenticity of research work.
- prepare the learner for the presentation of the project work.
- arrange a presentation of the project file.

3. <u>Steps involved in the conduct of the project:</u>

Students may work upon the following lines as a suggested flow chart: Choose a title/topic

Collection of the research material/data

Organization of material/data

Present material/data

Analysing the material/data for conclusion

Draw the relevant conclusion

Presentation of the Project Work

• The project work can be in the form of Power Point Presentation/Exhibition/Skit /albums/files/song and dance or culture show /story telling/debate/panel discussion,

paper presentation and so on. Any of these activities which are suitable to visually impaired/differently-abled candidates can be performed as per the choice of the student.

4. Expected Checklist for the Project Work:

- Introduction of topic/title
- Identifying the causes, events, consequences and/or remedies
- Various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Short-term and long-term implications of strategies suggested in the course of research
- Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file
- Presentation and writing that is succinct and coherent in project file
- Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

5. Term-Wise Assessment of Project Work:

- Project Work has broadly the following phases: Synopsis/ Initiation, Data Collection, Data Analysis and Interpretation, Conclusion.
- The aspects of the project work to be covered by students can be assessed during the two terms.
- 20 marks assigned for Project Work can be divided in to two terms in the following manner:

TERM-I PROJECT WORK (Part 1): 10 Marks

The teacher will assess the progress of the project work in the term I in the following manner:

Month	Periodic Work	Assessment Rubrics	Marks
1-3 July- September	Instructions about Project Guidelines, Background reading Discussions on Theme and Selection of the Final Topic, Initiation/ Synopsis	Introduction, Statement of Purpose/Need and Objective of the Study, Hypothesis/Research Question, Review of Literature, Presentation of Evidence, Key Words, Methodology, Questionnaire, Data Collection.	5
4-5 October- November	Planning and organisation: forming an action plan, feasibility or baseline study, Updating/modifying the action plan, Data Collection	Significance and relevance of the topic; challenges encountered while conducting the research.	5
October- November	Mid-term Assessment by internal examiner		10

TERM- II - PROJECT WORK (Part 2): 10 Marks

The teacher will assess the progress of the project work in the term II in the following manner:

Month	Periodic Work	Assessment Rubrics	Marks
6-7	Content/data analysis and interpretation.	Content analysis and its relevance in the current scenario.	
December-			5
January	Conclusion, Limitations,	Conclusion, Limitations,	
	Suggestions, Bibliography,	Bibliography, Annexures and	
	Annexures and Overall	Overall Presentation.	
	Presentation of the		
	project.		
8	Final Assessment and	External/ Internal Viva based on	5
January/	VIVA by both Internal	the project	
February	and External Examiners		
		TOTAL	10

6. Viva-Voce

- At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.
- The questions should be asked from the Research Work/ Project File of the learner.
- The Internal Examiner should ensure that the study submitted by the learner is his/her own original work.
- In case of any doubt, authenticity should be checked and verified.

Expected Checklist:

·Introduction of topic/title

- Identifying the causes, consequences and/or remedies
- Various stakeholders and effect on each of them
- ·Advantages and disadvantages of situations or issues identified

·Short-term and long-term implications of economic strategies suggested in the course of research

·Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file

Presentation and writing that is succinct and coherent in project file

Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

Mode of presentation/submission of the Project:

At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner. The questions should be asked from the Research Work/ Project File of the learner. The Internal Examiner should ensure that the study submitted by the learner is his/her own original work. In case of any doubt, authenticity should be checked and verified.

Suggestive List of Projects:

Class >	(I
·Effect on PPC due to various government policies	·Invisible Hand (Adam Smith)
·Opportunity Cost as an Economic Tool (taking real life situations)	·Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
 Solar Energy, a Cost Effective Comparison with Conventional Energy Sources 	·Bumper Production- Boon or Bane for the Farmer
 Any other newspaper article and its evaluation on basis of economic principles 	·Any other topic

Class X	(1)
·Micro and Small Scale Industries	·Food Supply Channel in India
·Contemporary Employment situation in India	·Disinvestment policy of the government
·Goods and Services Tax Act and its Impact on GDP	·Health Expenditure (of any state)
·Human Development Index	Inclusive Growth Strategy
·Self-help group	·Trends in Credit availability in India
·Monetary policy committee and its functions	·Role of RBI in Control of Credit
·Government Budget & its Components	·Trends in budgetary condition of India
 Exchange Rate determination – Methods and Techniques 	·Currency War – reasons and repercussions
·Livestock – Backbone of Rural India	·Alternate fuel – types and importance
·SarwaSikshaAbhiyan – Cost Ratio Benefits	·Golden Quadrilateral- Cost ratio benefit
·Minimum Support Prices	·Relation between Stock Price Index and Economic Health of Nation
·Waste Management in India – Need of the hour	·Minimum Wage Rate – approach and Application
·Digital India- Step towards the future	·Rain Water Harvesting – a solution to water crises
·Vertical Farming – an alternate way	·Silk Route- Revival of the past
·Make in India – The way ahead	·Bumper Production- Boon or Bane for the farmer
·Rise of Concrete Jungle- Trend Analysis	Organic Farming – Back to the Nature
•Any other newspaper article and its evaluation on basis of economic principles	·Any other topic

Guidelines for Assessment in Listening and Speaking Skills (ALS)

Classes XI-XII English Core (Code 301) Total Marks: 20

Term I: 10 Marks: Assessment of Listening and Speaking Skills

ALS must be seen as an integrated component of all four language skills rather than a compartment of two. Suggested activities, therefore, take into consideration an integration of the four language skills but during assessment, emphasis will be given to speaking and listening, since reading and writing are already being assessed in the written exam.

Listening Skill:

The focus is to use the assessment of Listening Skills for improving learners' competency to listen for basic interpersonal, instructional and academic purposes. A number of sub-skills need to be developed in the everyday classroom transaction. Given below are some of the sub-skills of listening which need to be assessed for the Internal Assessment component of Listening:

- i. Listening for Specific Information
- ii. Listening for General Understanding
- iii. Predictive Listening
- iv. Inferential Listening
- v. Listening for Pleasure
- vi. Intensive Listening
- vii. Evaluative Listening

Hence, the assessment items being prepared by subject teachers must assess the above.

Speaking Skill:

Assessment of speaking skills must be made an important component of the overall assessment, using this assessment as learning.

i. Activities:

- Subject teachers must refer to books prescribed in the syllabus.
- In addition to the above, teachers may plan their own activities and create their own material for assessing the listening and speaking skills.

ii. **Parameters for Assessment:** The listening and speaking skills are to be assessed on the following parameters:

- a) Interactive competence (Initiation & turn taking, relevance to the topic).
- b) Fluency (cohesion, coherence and speed of delivery).
- c) Pronunciation
- d) Language (accuracy and vocabulary).

A suggestive rubric is given below:

A 30	aggestive rubite is give				
Interaction	 Contributions are mainly unrelated to those of other speakers Shows hardly any initiative in the development of conversation Very limited interaction 	 Contributions are often unrelated to those of the other speaker Generally passive in the development of conversation 	 Develops interaction adequately, makes however minimal effort to initiate conversation Needs constant prompting to take turns 	 Interaction is adequately initiated and develop Can take turn but needs little prompting 	 5. Can initiate & logically develop simple conversation on familiar topics Can take turns appropriately
Pronunciation	 Insufficient accuracy in pronunciation; many grammatical errors Communication is severely affected 	 Frequently unintelligible articulation Frequent phonological errors Major communication problems 	 Largely correct pronunciation & clear articulation except occasional errors Some expressions cause stress without compromising with understanding of spoken discourse. 	 Mostly correct pronunciation & clear articulation Can be clearly understood most of the time; very few phonological errors 	 Can pronounce correctly & articulate clearly Is always comprehensible; uses appropriate intonation
Fluency & Coherence	 Noticeably/ long pauses; rate of Speech is slow Frequent repetition and/or self- correction Links only basic sentences; breakdown of coherence evident 	 Usually fluent; produces simple speech fluently, but loses coherence in complex communication Often hesitates and/or resorts to slow speech Topics partly developed; not always concluded logically 	 Is willing to speak at length, however repetition is noticeable Hesitates and/or self corrects; occasionally loses coherence Topics mainly developed, but usually not logically concluded 	 Speaks without noticeable effort, with a little repetition Demonstrates hesitation to find words or use correct grammatical structures and/or self- correction Topics not fully developed to merit 	 Speaks fluently almost with no repetition & minimal hesitation Develops topic fully & coherently
Vocabulary & Grammar	 Demonstrates almost no flexibility, and mostly struggles for appropriate words Uses very basic vocabulary to express view- points. 	 Communicates with limited flexibility and appropriacy on some of the topics Complex forms and sentence structures are rare; exhibits limited vocabulary to express new ideas 	 Communicates with limited flexibility and appropriacy on most of the topics Sometimes uses complex forms and sentence structures; has limited vocabulary to describe/ express new points 	 Can express with some flexibility and appropriacy on most of the topics Demonstrates ability to use complex forms and sentence structures most of the time; expresses with adequate vocabulary 	 Can express with some flexibility and appropriacy on a variety of topics such as family, hobbies, work, travel and current events Frequently uses complex forms and sentence structures; has enough vocabulary to express himself/ herself

iii. Schedule:

• The practice of listening and speaking skills should be done throughout the academic year.

• The final term I assessment of the skills is to be done as per the convenience and schedule of the school.

Term II: 10 Marks – Project Work + Viva-Voce

- Out of ten marks allotted for the term, 5 marks will be allotted for the project report/script /essay etc. and 5 for the viva.
- The Project will be **ONE** small project work to be covered in the Term II. However, the planning for the project by students in consultation with the teachers can begin early.

Schedule:

- Schools are expected to adhere to the timeline specified by the Board for the planning, preparation and viva-voce of ASL based projects.
- The final assessment of the skills is to be done on the basis of parameters suggested by the board. Language teachers, however, have the option to adopt/ modify these parameters according to their school specific requirements.

I. Suggestions for Project Work:

- The Project can be inter-disciplinary in theme. The ideas/issues highlighted in the chapters/ poems/ drama given the prescribed books can also be developed in the form of a project. Students can also take up any relevant and age-appropriate theme.
- Such topics may be taken up that provide students with opportunities for listening and speaking.

Some suggestions are as follows:

a. Interview-Based research:

Example:

- Students can choose a topic on which to do their research/ interview, e.g. a student can choose the topic : " Evolving food tastes in my neighbourhood" or "Corona pandemic and the fallout on families." Read the available literature.
- The student then conducts interviews with a few neighbours on the topic. For an interview, with the help of the teacher, student will frame questions based on the preliminary research/background.
- The student will then write an essay/ write up / report etc. up to 1000 words on his/her research and submit it. He / She will then take a viva on the research project. The project can be done in individually or in pairs/ groups

- Listen to podcasts/ interviews/radio or TV documentary on a topic and prepare a report countering or agreeing with the speakers. Write an 800 1000 words report and submit. Take a viva on the report.
- **c.** Students create their own video/ Audio, after writing a script. Before they decide on a format, the following elements can be taken into consideration:
 - Theme/topic of the audio / video. Would the child like to pick a current issue or something artistic like theatre?
 - What are the elements that need to be part of the script?
 - Will the video/audio have an interview with one or more guests?
 - Would they prefer to improvise while chatting with guests, or work from a script?
 - What would be the duration?
 - How would they present the script/report to the teacher, e.g. Can it be in the form of a narrative?

d. Write, direct and present a theatrical production, /One act play

This will be a project which will be done as a team. It will involve planning, preparation and presentation. In short, various language skills will be utilised. There will be researching, discussion, writing the script, auditioning and ultimately producing the play. The project will end with a presentation and subsequently a viva. Teachers will be able to assess the core language skills of the students and help them grow as 21st century critical thinkers.

II. Instructions for the Teachers

- 1. Properly orient students about the Project work, as per the present Guidelines.
- 2. Facilitate the students in the selection of theme and topic.
- **3.** Create a rubric for assessment and share with the students before they start so that they know the parameters of assessment:
 - Teachers need to familiarize themselves with the method of assessing students with the <u>rubric</u>-- a table with different criteria and a grading scale.
 - Choose the criteria on which you will grade students and list them along the left side of the page.
 - Create an even number of columns along the top of the page. These columns will represent potential skill levels of the students.
 - Assessing students on four/five criteria is an easy way to begin. For each criterion, define the ability that a student would exhibit at each of the levels.
- The more detailed you make your criteria, the easier it will be to evaluate each student and define the level at which the student is presenting.
 {Sample Rubric is attached at the end for reference}

Parameters for Overall Assessment:

1. Pronunciation:

• When evaluating the pronunciation of the students, teachers must listen for clearly articulated words, pronunciation of unusual spellings and intonation.

• Assess the students for the pronunciation skills and determine at which level the student needs improvement.

2. Vocabulary:

• After noting their pronunciation levels, evaluate the students on the use of extensive and appropriate **vocabulary** during the viva. Check if students are using vocabulary appropriate to the context about which they are speaking.

3. Accuracy:

• Grammar has always been an important component of language skills. As students speak/ answer the questions during the viva, listen to their **grammatical structures**. Are they competent enough to use multiple tenses? Is their word order correct in a given sentence? An effective speaker will automatically use the correct grammatical structures of his language.

4. Communication:

 Assessing the communication skills of the students means looking at more than language. Look at how creatively students use the language to make their points understood. Students with a low level of vocabulary and grammar may still have good communication skills if they are able to make the teacher understand their point of view.

5. Interaction:

- During the viva teachers need to ask the students some questions. Questions need to be based on the projects that have been suggested or chosen by the students.
- It is imperative for a teacher to read the essays/project reports before they can be ready to ask questions.
- Teachers need to observe how students answer the questions that are posed to them: Are they able to understand and answer questions independently or can they answer only when the questions are translated into simpler words or repeated? Are they able to give appropriate responses in a conversation?
- These elements of **interaction** are necessary for clear and effective communication. A student with effective interaction skills will be able to answer questions with relative ease and follow the flow of conversation.

6. Fluency:

- Fluency may be the easiest quality to judge in the students' speech: *How comfortable* are they as they speak and express themselves? How easily do the words come out? Are there inappropriate pauses and gaps in the way a student speaks?
- **Fluency** is a judgement of this communication and is an important criterion when evaluating speaking skills. These criteria: pronunciation, vocabulary, accuracy, interaction and fluency are all the hallmarks of a student's overall speaking abilities.
- Teachers must also remember that some **students may excel in one area and struggle in another**. Helping the students understand these issues will enable them to become effective speakers in future. Let your students know that you will be assessing them

in these various areas when you evaluate their progress and encourage them to work and improve in these areas.

• **Finally,** teachers must remember that a proper evaluation of the students will take into consideration **more than just one oral interview on the final ASL** project. Teachers must take note of a student's progress throughout the academic year.

Project-Portfolio/ Project Report

The **Project-Portfolios** is a compilation of the work that the students produce during the process of working on their ALS Project.

The Project-Portfolio may include the following:

- Cover page, with title of project, school details/details of students.
- Statement of purpose/objectives/goals
- Certificate of completion under the guidance of the teacher.
- Action plan for the completion of assigned tasks.
- Materials such as scripts for the theatre/role play, questionnaires for interview, written assignments, essays, survey-reports and other material evidence of learning progress and academic accomplishment.
- The 800-1000 words essay/Script/Report.
- Student/group reflections.
- If possible, Photographs that capture the positive learning experiences of the student(s).
- List of resources/bibliography.

The following points must be kept for consideration while assessing the project portfolios:

- Quality of content of the project
- Accuracy of information
- Adherence to the specified timeline
- Content in respect of (spellings, grammar ,punctuation)
- Clarity of thoughts and ideas
- Creativity
- Contributions by group members
- Knowledge and experience gained

Timeline <u>The FIVE Steps in Project Plan</u> PROJECT-INITIATION

PROJECT-PLANNING

	EXECUTION		IMPLEMENTATION	CLOSURE	
Month		Obje	ctives		
Planning for the Proj Preferably December	 Teachers plan a day to orient students about the ALS projects, detail are shared with all stakeholders. Students choose a project, select team members and develop project plan. Group meets (preferably online) and reports to the team leader about the progress: shortfalls and successes are detailed. Team leader apprises teacher-mentor. Students working individually or in pairs also update the teachers. A logical, deliverable and practical plan is drafted by the team pair/individual. Goals/objectives are clearly defined for all. Work is delegated to team members by the team leader. Students work alone develop their own plan of Action. Detailed project schedules are shared with the teacher. 		e ALS projects, details rs and develop project- the team leader about iled. odate the teachers. drafted by the team/ ned for all. team leader. Students f Action. teacher.		
December- January		•	 Suggestions and imp necessary. Group members coor for interaction. Gaps (if any) are fill individual student. 	rovements are shared by dinate and keep commur ed with the right skill sets	the teacher, wherever lication channels open by the Team Leader/
		•	• The final draft of the p for evaluation.	project portfolio/ report is p	repared and submitted
January-Fe	bruary	•	 Students are assesse allotted days. Final examiner. 	ed on their group/pair/indiv Viva is conducted by	ridual presentations on the External/Internal
February-M or as per the by the Boar	arch timelines given 'd	•	Marks are uploaded o	on the CBSE website.	

SAMPLE RUBRIC FOR ALS Project Work (For Theatre/Role Play/Oral presentation/Interview/Podcast)

CATEGORY	1	2	3	4	5
TIME LIMIT	Presentation is less than or more than 5 minutes long	Presentation exceeded or less than specified time limit by 4 to 5 minutes	Presentation exceeded or less than specified time limit by 3 to 4 minutes	Presentation exceeded or less than specified time limit by 2 to 3 minutes	Student/ group adhered to the given time limit
CONTENT/SCRIPT/ QUESTIONNAIRE	Script is not related to topic or issue	Well written script/ content shows little understanding of parts of topic	Well written script/ content shows good understanding of parts of topic	Well written script/ content shows a good understanding of subject topic	Well written script/ content shows full understanding of subject topic
CREATIVITY	No props/costumes/ stage presentation lack- lustre	Some work done, average stage set- up and costumes	Well organized presentation, could have improved	Logical use of props,reasonable work done, creative	Suitable props / honest effort seen/ considerable work done/ creative and relevant costumes
PREPAREDNESS	Student /group seems to be unprepared	Some preparedness visible, but rehearsal is lacking	Somewhat prepared, rehearsal is lacking	Good preparedness ,but need better rehearsal	Complete preparedness/ rehearsed presentation
CLARITY OF SPEECH	Lack of clarity in presentation many words mispronounced	Speaks clearly, some words are mispronounced	Speaks clearly 90% of the time/ a few mispronounced words	Speaks clearly and distinctly 95% of time/ few mispronounced words	Speaks clearly distinctly 95% of time/ fluency in pronunciation
USE OF PROPS (Theatre/Role Play)	Only 1/no relevant props used	1 to 2 relevant props used	2 to 3 relevant props used	3 to 4 relevant props used	4 to 5 relevant props used
EXPRESSION/ BODY LANGUAGE	Very little use of facial expressions/ body language, does not generate much interest	Little Use of facial expressions and body language	Facial expressions and body language are used to try to generate some enthusiasm	Facial expression and body language sometimes generate strong enthusiasm with the topic	Facial expression and body language generate strong enthusiasm with the topic
PORTFOLIO- PRESENTATION	Inadequate & unimpressive	Somewhat suitable & convincing	Adequate & relevant	Interesting, enjoyable & relevant	Brilliant, creative & exceptional

<u>Geography</u> <u>Code No. 029</u> <u>Class XI (2021-22)</u> <u>Term wise Syllabus</u>

COURSE CONTENT TERM I

MARKS: 35 Weightage

Part A:	Fundamentals of Physical Geography	15 Mark s
Unit I:	Geography as a Discipline	3
	 Geography as an integrating discipline, as a science of spatial attributes. Branches of Geography: Physical Geography and Human Geography. Scope and Career Options (Non-evaluative) 	
Unit II:	The Earth	9
	 Origin and evolution of the earth; interior of the earth 	
	 Wegener's continental drift theory and plate tectonics 	
	Earthquakes and volcanoes: causes, types and effects	
Unit III:	Landforms	3
	Rocks: major types of rocks and their characteristics	
Part B:	India - Physical Environment	15 Mark s
Unit I:	Introduction	7
	Location, space relations, India's place in the world	
Unit II:	Physiography	8
	 Drainage systems: Concept of river basins, watershed; the Himalayan and the Peninsular rivers 	
Map worl outline P	c on identification / interpolation of features based on the units on the hysical/Political map of the world/ India	5
Part C:	Practical Work	15 Marks
	CH1: Introduction to Maps	
	CH2: Map Scale	4
	CH3: Latitudes, Longitudes and Time	

COURSE CONTENT TERM II

MARKS : 35

Weightage

Part A:	Fundamentals of Physical Geography	15 Marks
Unit IV:	Climate	8
	 Atmosphere- composition and structure; elements of weather and climate 	
	Insolation-angle of incidence and distribution; heat budget of the earth- heating and cooling of atmosphere (conduction, convection, terrestrial radiation and advection); temperature - factors controlling temperature; distribution of temperature - horizontal and vertical; inversion of temperature	
	 Pressure-pressure belts; winds-planetary, seasonal and local; air masses and fronts; tropical and extra-tropical cyclones 	
	 Precipitation-evaporation; condensation-dew, frost, fog, mist and cloud; rainfall-types and world distribution 	
Unit V:	Water (Oceans)	4
	 Movements of ocean water-waves, tides and currents; submarine reliefs 	
	Ocean resources and pollution	
Unit VI:	Life on the Earth	3
	 Biosphere - importance of plants and other organisms; biodiversity and conservation. 	
Part B:	India - Physical Environment	15 Marks
Unit III:	Climate, Vegetation and Soil	15
	 Weather and climate - spatial and temporal distribution of temperature, pressure winds and rainfall, Indian monsoon: mechanism, onset and withdrawal, variability of rainfalls: spatial and temporal; use of weather charts 	
	 Natural vegetation-forest types and distribution; wild life; conservation; biosphere reserves 	
	 Soils - major types (ICAR's classification) and their distribution, soil degradation and conservation 	
Map wo	rk on identification/ interpolation of features based on the units on the outline Physical/Political map of the world/ India	5

Part C:	Practical Work	15 Marks
	CH6: Introduction to Aerial Photograph	
	CH7: Introduction to Remote Sensing.	
	CH8: Weather Instruments, Maps and Charts	

Prescribed Books:

- 1. Fundamentals of Physical Geography, Class XI, Published by NCERT
- 2. India, Physical Environment, Class XI, Published by NCERT
- 3. Practical Work in Geography, Class XI, Published by NCERT

Note: The above textbooks are also available in Hindi medium.

<u>Geography</u>

Code No. 029

Class XII (2021-22)

Term wise Syllabus

COURSE CONTENT TERM I

	MA We	RKS : 35 eightage
Part A:	Fundamentals of Human Geography	15 Marks
Unit I:	Human Geography: Nature and Scope	3
Unit II:	People	7
	Population - distribution, density and growth	
	 Population change - spatial patterns and structure; determinants of population change 	
	 Human development - concept; selected indicators, international comparisons 	
Unit III:	Human Activities	5
	Primary activities - concept and changing trends; gathering, pastoral, mining, subsistence agriculture, modern agriculture; people engaged in agricultural and allied activities - some examples from selected countries	
Part B:	India: People and Economy	15 Marks
Unit I:	People	5
	 Population: distribution, density and growth 	
	 Migration: International and national-Types causes and consequences 	
Unit II:	Human Settlements	5
	Rural settlements - types and distribution	
	Urban settlements - types, distribution and functional classification	
Unit III:	Resources and Development	5
	Water resources - availability and utilization-irrigation, domestic,	

industrial and other uses; scarcity of water and conservation methods-rain water harvesting and watershed management Map Work on identification of features based on 1-5 units on the outline Political map of World.		
Part C:	Practical Work	15 Marks
Unit 1:	Processing of Data and Thematic Mapping Processing of Data and Thematic Mapping Type and Sources of data: Primary, Secondary and other sources Tabulating and processing of data; calculation of averages, measures of central tendency	

COURSE CONTENT TERM II

MARKS : 35 Weightage

		<u>g</u> g.
Part A:	Fundamentals of Human Geography	15 Marks
Unit III:	Human Activities	9
	Secondary activities-concept; manufacturing: types - household, small scale, large scale; agro based and mineral based industries; people engaged in secondary activities - some examples from selected countries	
	 Tertiary activities-concept; trade, transport and tourism; services; people engaged in tertiary activities - some examples from selected countries 	
	 Quaternary activities-concept; people engaged in quaternary activities - case study from selected countries 	
Unit IV:	Transport and Communication	6
	Land transport - roads, railways; trans-continental railways	
	 Water transport - inland waterways; major ocean routes 	
	 Air transport - Intercontinental air routes 	
	Oil and gas pipelines	
	 Satellite communication and cyberspace - importance and usage for geographical information; use of GPS 	
Part B:	India: People and Economy	15 Marks
Unit III:	Resources and Development	7
	 Mineral and energy resources - distribution of metallic (Iron ore, Copper, Bauxite, Manganese); non-metallic (Mica, Salt) minerals; conventional (Coal, Petroleum, Natural gas and Hydroelectricity) and non-conventional energy sources (solar, wind, biogas) and conservation 	
	 Planning in India - target group area planning (case study); idea of sustainable development (case study) 	
Unit IV:	Transport and Communication	4
	 Transport and communication-roads, railways, waterways and airways: oil and gas pipelines; Geographical information and communication networks 	
Unit V:	Geographical Perspective on selected issues and problems	4

	 Environmental pollution; urban-waste disposal Urbanization, rural-urban migration; problems of slums Land degradation 	
Map work outline ma	on locating and labelling of features based on above units on ap of India.	5
Part C:	Practical Work	15 Marks
Unit 1:	Processing of Data and Thematic Mapping	
	 Representation of data- construction of diagrams: Lines, bars, circles and flowchart; thematic maps; construction of dot; choropleth and isopleth maps 	
	 Data analysis and generation of diagrams, graphs and other visual diagrams using computers 	

Prescribed Books:

- 1. Fundamentals of Human Geography, Class XII, Published by NCERT
- 2. India People and Economy, Class XII, Published by NCERT
- 3. Practical Work in Geography, Class XII, Published by NCERT

Note: The above textbooks are also available in Hindi medium.

Fundamentals of Human Geography Class XII - Textbook I (NCERT) Map Items for identification only on outline political map of the World.

Unit-1	Ch1	Nil	
Unit-2	Ch. 2 and 4	1	The largest country in each continent in terms of area
Unit-3	Ch. 5 to 8	1	Areas of subsistence gathering
	Primary Activities	2	Major areas of nomadic herding of the world
		3	Major areas of commercial livestock rearing
		4	Major areas of extensive commercial grain faming
		5	Major areas of mixed farming of the World
		6	Major areas of Mediterranean agriculture of the World
	Secondary Activities	1	Ruhr region, Silicon Valley, Appalachian region, Great lakes region
Unit - 4	Ch. 8	2	Transcontinental Railways: Terminal Stations of transcontinental railways – Trans Siberian, Trans Canadian, Tran Australian Railways
		3	Major Sea Ports:
			Europe: North Cape, London, Hamburg
			North America: Vancouver, San Francisco, New Orleans
			South America: Rio De Janeiro, Colon, Valparaiso
			Africa: Suez, Durban and Cape Town
			Asia: Yokohama, Shanghai, Hong Kong, Aden, Karachi, Kolkata
			Australia: Perth, Sydney, Melbourne
		4.	Inland Waterways: Suez Canal, Panama Canal, Rhine waterway and St. Lawrence Seaway
		5.	Major Airports:
			Asia: Tokyo, Beijing, Mumbai, Jedda, Aden
			Africa: Johannesburg & Nairobi
			Europe: Moscow, London, Paris, Berlin and Rome North America: Chicago, New Orleans, Mexico City
			South America: Buenos Aires, Santiago
			Australia: Darwin and Wellington

India - People and Economy Class XII-Textbook II (NCERT)

Map Items for locating and labelling only on the outline political map of India

Units - 1 & 2	Ch. 1 to 4	 State with highest level of urbanization and lowest level of urbanization 		
		 State with higher level of population density & one state with lowest level of population density 		
		One out migrating state		
		One in migrating state		
		 Any city with more than 10 million population – Greater Mumbai, Delhi, Kolkata, Chennai, Bengaluru 		
Unit - 3	Ch. 6 to 9			
		Mines:		
		 Iron-ore mines: Mayurbhanj, Bailadila, Ratnagiri, Bellary 		
		 Manganese mines: Balaghat, Shimoga 		
		 Copper mines: Hazaribagh, Singhbhum, Khetri 		
		 Bauxite mines: Katni, Bilaspur and Koraput 		
		 Coal mines: Jharia, Bokaro, Raniganj, Neyveli 		
		 Oil Refineries: Mathura, Jamnagar, Baroni Industries 		
Unit - 9	Ch. 10	Transport:		
		 (i) Important nodes on north south corridor, east west corridor & Golden Quadrilateral 		
Unit-10	Ch.12	NIL		

HISTORY Code No. 027 Class XI (2021-22) THEMES IN WORLD HISTORY

TERM I

S.NO	THEMES	WEIGHTAGE (IN MARKS)
1.	Theme 2 -Writing And City Life	10
2.	Theme 3 - An Empire Across Three Continents	10
3.	Theme 4 - Central Islamic lands	10
4.	Theme 6 - The Three Orders	10
	Total	40

TERM-II

S.NO	THEMES	WEIGHTAGE (IN MARKS)
5.	Theme 7 - Changing Cultural Traditions	10
6.	Theme 9 - The Industrial Revolution	10
7.	Theme 10 - Displacing Indigenous People	10
8.	Theme 11 - Paths To Modernization	10
	Total	40

* Map work included in both the terms

Project Work* = 20 Marks (10+10)

*See the guidelines given with the document.

		=	100 Marks
Pro	ject Work	=	20 Marks
	Term II	=	40 Marks
Grand Total =	Term I	=	40 Marks

HISTORY Code No.-027 Class XII(2021-22) THEMES IN INDIAN HISTORY (PART-I, II&III)

TERM I

S.NO.	THEMES	WEIGHTAGE (IN MARKS)
1.	Theme 1 - Bricks, Beads and	
	Bones	
2.	Theme 2 - Kings, Farmers and	
	Towns	
3.	Theme 3 -Kinship, Caste and	25
	Class	
4.	Theme 4 -Thinkers, Beliefs and	
	Buildings	
5.	Theme 6 - Bhakti –Sufi Traditions	15
6.	Theme 7 - An Imperial Capital:	
	Vijayanagara	
	Total	40

TERM-II

S.NO	THEMES	WEIGHTAGE (IN MARKS)
7.	Theme 9 - Kings and Chronicles	10
8.	Theme 10 - Colonialism and The Countryside (HALF)pg-257-274	
9.	Theme 11 - Rebels and the Raj	20
10.	Theme 13 - Mahatma Gandhi and the Nationalist Movement	30
11.	Theme 15 - Framing the	
	Constitution	
	Total	40

* Map work included in both the terms

Project Work* = 20 Marks (10+10)

*See the guidelines given with the document.

		=	100 Marks
	Project Work	=	20 Marks
	Term II	=	40 Marks
Grand Total =	Term I	=	40 Marks

Note: Kindly refer to the guidelines on project work given below:-

Guidelines for Subjects having Project Work: 20 Marks

(Sociology, History, Legal Studies, Political Science, Economics, Business Studies, Accountancy)

One Project to be done throughout the session, as per the existing scheme.

1. The objectives of the project work:

Objectives of project work are to enable learners to:

- probe deeper into personal enquiry ,initiate action and reflect on knowledge and skills, views etc. acquired during the course of class XI-XII .
- analyse and evaluate real world scenarios using theoretical constructs and arguments
- demonstrate theapplication of critical and creative thinking skills and abilities to produce an independent and extended piece of work
- follow up aspects in which learners have interest
- develop the communication skills to argue logically

2. Role of the teacher:

The teacher plays a critical role in developing thinking skills of the learners. A teacher should:

- help each learner select the topic after detailed discussions and deliberations of the topic;
- play the role of a facilitator to support and monitor the project work of the learner through periodic discussions;
- guide the research work in terms of sources for the relevant data;
- ensure that students must understand the relevance and usage of primary evidence and other sources in their projects and duly acknowledge the same;
- ensure that the students are able to derive a conclusion from the content; cite the limitations faced during the research and give appropriate references used in doing the research work.
- educate learner about plagiarism and the importance of quoting the source of the information to ensure authenticity of research work.
- prepare the learner for the presentation of the project work.
- arrange a presentation of the project file.

3. <u>Steps involved in the conduct of the project:</u>

Students may work upon the following lines as a suggested flow chart: Choose a title/topic Collection of the research material/data Organization of material/data Present material/data Analysing the material/data for conclusion

Draw the relevant conclusion

Presentation of the Project Work

• The project work can be in the form of Power PointPresentation/Exhibition/Skit/albums/files/song and dance or culture show /story telling/debate/panel discussion, paper presentation and so on. Any of these activities which are suitable to visually impaired/differently-abled candidates can be performed as per the choice of the student.

4. Expected Checklist for the Project Work:

- Introduction of topic/title
- Identifying the causes, events, consequences and/or remedies
- Various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Short-term and long-term implications of strategies suggested in the course of research
- Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file
- Presentation and writing that is succinct and coherent in project file
- Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

5. Term-Wise Assessment of Project Work:

- Project Work has broadly the following phases: Synopsis/ Initiation, Data Collection, Data Analysis and Interpretation, Conclusion.
- The aspects of the project work to be covered by students can be assessed during the two terms.
- 20 marks assigned for Project Work can be divided in to two terms in the following manner:

TERM-I PROJECT WORK: 10 Marks

The teacher will assess the progress of the project work in the term I in the following manner:

Month	Periodic Work	Assessment Rubrics	Marks
1-3	Instructions about Project	Introduction, Statement of	5
	Guidelines, Background	Purpose/Need and objectives of the	
July-	reading Discussions on	study, Hypothesis/Research	
September	Theme and Selection of the	Question, Review of Literature,	
	Final Topic, Initiation/	Presentation of Evidence,	
	Synopsis	Methodology, Questionnaire, Data	
		Collection.	
4-5	Planning and organisation:	Significance and relevance of the	5
	forming an action plan,	topic; challenges encountered while	
October-	feasibility or baseline study,	conducting the research.	
November	Updating/modifying the action		
	plan, Data Collection		

October-	Midterm Assessment by	Total	10
November	internal examiner		

TERM- II - PROJECT WORK: 10 Marks

The teacher will assess the progress of the project work in the term II in the following manner:

Month	Periodic Work	Assessment Rubrics	Marks
6-7	Content/data analysis and	Content analysis and its relevance in	
December	interpretation.	the current scenario.	
-January			5
	Conclusion, Limitations,	Conclusion, Limitations,	
	Suggestions, Bibliography,	Bibliography, Annexures and Overall	
	Annexures and overall	Presentation.	
	presentation of the project.		
8	Final Assessment and VIVA	External/ Internal Viva based on the	5
January/	by both Internal and External	project	
February	Examiners		
		TOTAL	10

6. Viva-Voce

- At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.
- The questions should be asked from the Research Work/ Project File of the learner.
- The Internal Examiner should ensure that the study submitted by the learner is his/her own original work.
- In case of any doubt, authenticity should be checked and verified.

POLITICAL SCIENCE (Code No. 028) Class XI (2021-22) TERM WISE SYLLABUS

TERM-1

40 Marks

Units	Contents	WEIGHTAGE (IN MARKS)		
	Part A: Indian Constitution at Work			
1	Constitution	12		
2	Election and Representation	05		
3	Local Government	03		
	Part B: Political Theory			
4	Political Theory: An Introduction	07		
5	Rights	07		
6	Development	06		
	Total	40		

TERM-2

40 Marks

Units	Contents	WEIGHTAGE (IN MARKS)		
	Part A: Indian Constitution at Work			
7	Legislature	07		
8	Executive	07		
9	Judiciary	06		
	Part B: Political The	ory		
10	Liberty	07		
11	Equality	07		
12	Justice	06		
	Total	40		

Project Work* = 20 Marks

*See the guidelines given with the document.

		=	100 Marks
	Project Work	=	20 Marks
	Term II	=	40 Marks
Grand Total =	Term I	=	40 Marks

POLITICAL SCIENCE (Code No. 028)

Class XII (2021-22) TERM WISE SYLLABUS

TERM-1

40 Marks

Units	Contents	WEIGHTAGE (IN MARKS)		
	Part A: Contemporary World Politics			
1	Cold War Era and Non–aligned Movement	6		
2	The End of Bipolarity	8		
3	United Nations and its Organizations	6		
	Part B: Politics in India Sir	nce Independence		
4	Challenges of Nation-Building	08		
5	Planning and Development	04		
6	India's Foreign Policy	08		
	Total	40		

TERM- 2

40 Marks

Units	Contents	WEIGHTAGE (IN MARKS)
	Part A: Contemporary W	/orld Politics
7	New Centers of Power	08
8	South Asia and the Contemporary World	06
9	Globalization	06
	Part B: Politics in India Sinc	e Independence
10	Parties and the Party Systems in India	06
11	Democratic Resurgence	06
12	Indian Politics: Trends and Developments	08
	Total	40

Project Work* = 20 Marks

*See the guidelines given with the document.

		=	100 Marks
	Project Work	=	20 Marks
	Term II	=	40 Marks
Grand Total =	Term I	=	40 Marks
	_		

Note: Kindly refer to the guidelines on project work given below:-

Guidelines for Subjects having Project Work: 20 Marks

(Sociology, History, Legal Studies, Political Science, Economics, Business Studies, Accountancy)

One Project to be done throughout the session, as per the existing scheme.

1. The objectives of the project work:

Objectives of project work are to enable learners to:

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- analyse and evaluate real world scenarios using theoretical constructs and arguments
- demonstrate the application of critical and creative thinking skills and abilities to produce an independent and extended piece of work
- follow up aspects in which learners have interest
- develop the communication skills to argue logically

2. Role of the teacher:

The teacher plays a critical role in developing thinking skills of the learners. A teacher should:

- help each learner select the topic after detailed discussions and deliberations of the topic;
- play the role of a facilitator to support and monitor the project work of the learner through periodic discussions;
- guide the research work in terms of sources for the relevant data;
- ensure that students must understand the relevance and usage of primary evidence and other sources in their projects and duly acknowledge the same;
- ensure that the students are able to derive a conclusion from the content; cite the limitations faced during the research and give appropriate references used in doing the research work.
- educate learner about plagiarism and the importance of quoting the source of the information to ensure authenticity of research work.
- prepare the learner for the presentation of the project work.
- arrange a presentation of the project file.

3. Steps involved in the conduct of the project:

Students may work upon the following lines as a suggested flow chart:



Presentation of the Project Work

• The project work can be in the form of Power Point Presentation/Exhibition/Skit /albums/files/song and dance or culture show /story telling/debate/panel discussion, paper presentation and so on. Any of these activities which are suitable to visually impaired/differently-abled candidates can be performed as per the choice of the student.

4. Expected Checklist for the Project Work:

- Introduction of topic/title
- Identifying the causes, events, consequences and/or remedies
- Various stakeholders and effect on each of them
- Advantages and disadvantages of situations or issues identified
- Short-term and long-term implications of strategies suggested in the course of research
- Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file
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September	Theme and Selection of the	Question, Review of Literature,	
	Final Topic, Initiation/	Presentation of Evidence,	
	Synopsis	Methodology, Questionnaire, Data	
		Collection.	
4-5	Planning and organisation:	Significance and relevance of the	5
	forming an action plan,	topic; challenges encountered while	
October-	feasibility or baseline study,	conducting the research.	
November	Updating/modifying the action		
	plan, Data Collection		
October-	Midterm Assessment by	TOTAL	10
November	internal examiner		

TERM- II - PROJECT WORK: 10 Marks

Month	Periodic Work	Assessment Rubrics	Marks
6-7	Content/data analysis and	Content analysis and its relevance in	
December	interpretation.	the current scenario.	
-January			5
-	Conclusion, Limitations,	Conclusion, Limitations,	
	Suggestions, Bibliography,	Bibliography, Annexures and Overall	
	Annexures and overall	Presentation.	
	presentation of the project.		
8	Final Assessment and VIVA	External/ Internal Viva based on the	5
January/	by both Internal and External	project	
February	Examiners		
		TOTAL	10

The teacher will assess the progress of the project work in the term II in the following manner:

6. Viva-Voce

- At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.
- The questions should be asked from the Research Work/ Project File of the learner.
- The Internal Examiner should ensure that the study submitted by the learner is his/her own original work.
- In case of any doubt, authenticity should be checked and verified.

SOCIOLOGY (039) Code No. 039 Class - XI (2021-22)

TERM WISE SYLLABUS

	TERM I	WEIGHTAGE (IN MARKS)
1.	Sociology and Society	10
2.	Terms, Concepts and Their Use in Sociology	10
3.	Understanding Social Institutions	10
4.	Culture and Socialisation	10
	Total	40 Marks
	TERM II	
1.	Social Change and Social Order in Rural and Urban Society	14
2.	Introducing Western Sociologists	14
3.	Indian Sociologists	12
	Total	40 Marks

Prescribed Textbooks:

- 1. Introducing Sociology (NCERT)
- 2. Understanding Society (NCERT)

Project Work* = 20 Marks

*See the guidelines given with the document.

		=	100 Marks
	Project Work	=	20 Marks
	Term II	=	40 Marks
Grand Total =	Term I	=	40 Marks
	TERM I	WEIGHTAGE (IN MARKS)	
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1.	The Demographic Structure of the Indian society	10	
2.	Social Institutions: Continuity and Change	10	
3.	Patterns of Social Inequality and Exclusion	10	
4.	The Challenges of Cultural Diversity	10	
	Total	40 Marks	
TERM II			
1.	Structural Change	5	
2.	Cultural Change	5	
3.	Change and Development in Rural Society	10	
4.	Change and Development in Industrial Society	10	
5.	Social Movements	10	
	Total	40 Marks	

Class - XII (2021-22)

Prescribed Textbooks:

- 1. Indian Society (NCERT)
- 2. Social Change and Development in India (NCERT)

Project Work* = 20 Marks

*See the guidelines given with the document.

		=	100 Marks
	Project Work	=	20 Marks
	Term II	=	40 Marks
Grand Total =	Term I	=	40 Marks

Note: Kindly refer to the guidelines on project work given below:

Guidelines for Subjects having Project Work: 20 Marks

(Sociology, History, Legal Studies, Political Science, Economics, Business Studies, Accountancy)

One Project to be done throughout the session, as per the existing scheme.

1. The objectives of the project work:

Objectives of project work are to enable learners to:

• probe deeper into personal enquiry ,initiate action and reflect on knowledge and skills, views etc. acquired during the course of class XI-XII.

- analyse and evaluate real world scenarios using theoretical constructs and arguments
- demonstrate the application of critical and creative thinking skills and abilities to produce an independent and extended piece of work
- follow up aspects in which learners have interest
- develop the communication skills to argue logically

2. Role of the teacher:

The teacher plays a critical role in developing thinking skills of the learners. A teacher should:

- help each learner select the topic after detailed discussions and deliberations of the topic;
- play the role of a facilitator to support and monitor the project work of the learner through periodic discussions;
- guide the research work in terms of sources for the relevant data;
- ensure that students must understand the relevance and usage of primary evidence and other sources in their projects and duly acknowledge the same;
- ensure that the students are able to derive a conclusion from the content; cite the limitations faced during the research and give appropriate references used in doing the research work.
- educate learner about plagiarism and the importance of quoting the source of the information to ensure authenticity of research work.
- prepare the learner for the presentation of the project work.
- arrange a presentation of the project file.

3. Steps involved in the conduct of the project:

Students may work upon the following lines as a suggested flow chart:



 The project work can be in the form of Power Point Presentation/Exhibition/Skit /albums/files/song and dance or culture show /story telling/debate/panel discussion, paper presentation and so on. Any of these activities which are suitable to visually impaired/differently-abled candidates can be performed as per the choice of the student.

4. Expected Checklist for the Project Work:

- Introduction of topic/title
- Identifying the causes, events, consequences and/or remedies
- Identify various associated dimensions and effect of the identified situation or issue on each of them.
- Advantages and disadvantages of situations or issues identified
- Short-term and long-term implications of strategies suggested in the course of research
- Validity, reliability, appropriateness and relevance of data used for research work and for presentation in the project file
- Presentation and writing that is succinct and coherent in project file
- Citation of the materials referred to, in the file in footnotes, resources section, bibliography etc.

5. Term-Wise Assessment of Project Work:

- Project Work has broadly the following phases: Synopsis/ Initiation, Data Collection, Data Analysis and Interpretation, Conclusion.
- The aspects of the project work to be covered by students can be assessed during the two terms.
- 20 marks assigned for Project Work can be divided in to two terms in the following manner:

TERM-I PROJECT WORK: 10 Marks

The teacher will assess the progress of the project work in the term I in the following manner:

Month	Periodic Work	Assessment Rubrics	Marks
1-3	Instructions about Project	Introduction, Statement of	5
	Guidelines, Background	Purpose/Need and objectives of the	
July-	reading Discussions on	study, Hypothesis/Research	
September	Theme and Selection of the	Question, Review of Literature,	
	Final Topic, Initiation/	Presentation of Evidence,	
	Synopsis	Methodology, Questionnaire, Data	
		Collection.	
4-5	Planning and organisation:	Significance and relevance of the	5
	forming an action plan,	topic; challenges encountered while	
October-	feasibility or baseline study,	conducting the research.	
November	Updating/modifying the action		
	plan, Data Collection		
October-	Midterm Assessment by	TOTAL	10
November	internal examiner		

TERM- II - PROJECT WORK: 10 Marks

The teacher will assess the progress of the project work in the term II in the following manner:

Month	Periodic Work	Assessment Rubrics	Marks
6-7	Content/data analysis and	Content/data analysis and its	
December	interpretation.	relevance in the current scenario.	
-January			5
	Conclusion, Limitations,	Conclusion, Limitations,	
	Suggestions, Bibliography,	Bibliography, Annexures and Overall	
	Annexures and overall	Presentation.	
	presentation of the project.		
8	Final Assessment and VIVA	External/ Internal Viva based on the	5
January/	by both Internal and External	project	
February	Examiners		
		TOTAL	10

6. Viva-Voce

- At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner.
- The questions should be asked from the Research Work/ Project File of the learner.
- The Internal Examiner should ensure that the study submitted by the learner is his/her own original work.
- In case of any doubt, authenticity should be checked and verified.

PHYSICAL EDUCATION (048) DISTRIBUTION OF SYLLABUS – CLASS XI – 2021-2022 TERM - I AND TERM - II

Т	ERM I – THEORY	TERM II – THEORY	
	MCQ BASED - 35 MARKS		SHORT/LONG ANSWER – 35 MARKS
*Unit No.	Name	*Unit No.	Name
1.	 Changing Trends & Career in Physical Education Meaning & definition of Physical Education Aims & Objectives of Physical Education Career Options in Physical Education. Khelo-India Program 	4.	 Physical Education & Sports for CWSN (Children With Special Needs- Divyang) Aims & objectives of Adaptive Physical Education Organization promoting Adaptive Sports (Special Olympics Bharat; Paralympics; Deaflympics) Role of various professionals for children with special needs (Counsellor, Occupational Therapist, Physiotherapist, Physical Education Teacher, Speech Therapist & special Educator)
2.	Olympic Value Education • Olympics • Olympic Symbols, Ideals, Objectives & Values of Olympism • International Olympic Committee • Indian Olympic Association	5.	Yoga • Meaning & Importance of Yoga • Elements of Yoga • Introduction - Asanas, Pranayam, Meditation & Yogic Kriyas • Yoga for concentration & related Asanas (Sukhasana; Tadasana; Padmasana & Shashankasana, Naukasana, Vrikshasana (Tree pose), Garudasana (Eagle pose)
3.	 Physical Fitness, Wellness & Lifestyle Meaning & Importance of Physical Fitness, Wellness & Lifestyle Components of physical fitness and Wellness Components of Health related fitness 	6.	 Physical Activity & Leadership Training Leadership Qualities & Role of a Leader Meaning, objectives & types of Adventure Sports (Rock Climbing, Tracking, River Rafting, Mountaineering, Surfing and Paragliding) Safety measures to prevent sports injuries
7	 Test, Measurement & Evaluation Define Test, Measurement & Evaluation Importance of Test, Measurement & Evaluation In Sports Calculation of BMI & Waist - Hip Ratio. Measurement of health related fitness. 	9.	 Psychology & Sports Definition & Importance of Psychology in Phy. Edu. & Sports Define & Differentiate Between Growth & Development. Adolescent Problems & Their Management
8	 Fundamentals of Anatomy, Physiology & Kinesiology in Sports Definition and Importance of Anatomy, Physiology & Kinesiology Function of Skeleton System, Classification of Bones & Types of Joints . 	10.	 Training and Doping in Sports Meaning & Concept of Sports Training Principles of Sports Training Concept & classification of doping Prohibited Substances & their side effects

	 Function & Structure of Respiratory System and Circulatory System Equilibrium – Dynamic & Static And Centre of Gravity and its application in sports 		
	TERM I – PRACTICAL		TERM II – PRACTICAL
05 Marks	Project File (About one sport/game of choice)	05 Marks	Project File (Yoga and General Motor Fitness Test)
05 Marks	Demonstration of Fitness Activity	05 Marks	Demonstration of Fitness Activity/Yoga
05 Marks	Viva Voce (From Project File; Fitness)	05 Marks	Viva Voce (From Viva Voce (From Project File; General Motor Fitness; Yoga)

*For resource material refer Class XI Physical Education Handbook available at Board's Academic website: <u>www.cbseacademic.nic.in</u>

PHYSICAL EDUCATION (048) DISTRIBUTION OF SYLLABUS – CLASS XII – 2021-2022 TERM - I AND TERM - II

TERM I – THEORY MCQ BASED - 35 MARKS		SHORT/LO	TERM II – THEORY ONG ANSWER – 35 MARKS
*Unit No.	Name	*Unit No.	Name
1	Planning in Sports Meaning & Objectives Of Planning Various Committees & its Responsibilities (pre; during & post) Tournament – Knock-Out, League Or Round Robin & Combination Procedure To Draw Fixtures – Knock-Out (Bye & Seeding) & League (Staircase & Cyclic)	3	Yoga & LifestyleAsanas as preventive measuresObesity: Procedure, Benefits & contraindications for Vajrasana, Hastasana,
2	Sports & Nutrition Balanced Diet & Nutrition: Macro & Micro Nutrients Nutritive & Non-Nutritive Components Of Diet Eating For Weight Control – A Healthy Weight, The Pitfalls of Dieting, Food	4	 Physical Education & Sports for CWSN (Children with Special Needs - DIVYANG) Concept of Disability & Disorder Types of Disability, its causes & nature (cognitive disability, intellectual

	Intolerance & Food Myths		 disability, physical disability) Types of Disorder, its cause & nature (ADHD, SPD, ASD, ODD, OCD) Disability Etiquettes Strategies to make Physical Activities assessable for children with special need.
5	Children & Women in Sports Motor development & factors affecting it Exercise Guidelines at different stages of growth & Development Common Postural Deformities - Knock Knee; Flat Foot; Round Shoulders; Lordosis, Kyphosis, Bow Legs and Scoliosis and their corrective measures Sports participation of women in India	7	 Physiology & Injuries in Sports Physiological factor determining component of Physical Fitness Effect of exercise on Cardio Respiratory System Effect of exercise on Muscular System Sports injuries: Classification (Soft Tissue Injuries: (Abrasion, Contusion, Laceration, Incision, Sprain & Strain) Bone & Joint Injuries: (Dislocation, Fractures: Stress Fracture, Green Stick, Communated, Transverse Oblique & Impacted) Causes, Prevention& treatment First Aid – Aims & Objectives
6	Test & Measurement in Sports Motor Fitness Test – 50 M Standing Start, 600 M Run/Walk, Sit & Reach, Partial Curl Up, Push Ups (Boys), Modified Push Ups (Girls), Standing Broad Jump, Agility – 4x10 M Shuttle Run Measurement of Cardio Vascular Fitness – Harvard Step Test/Rockport Test - <u>D</u> uration of the Exercise in Seconds x 100 	9	 Psychology & Sports Personality; its definition & types – Trait & Types (Sheldon & Jung Classification) & Big Five Theory Motivation, its type & techniques Meaning, Concept & Types of Aggressions in Sports

	∘ Rikli & Citizen	Jones - Senior Fitness Test			
 Ritin & Jolies - Settion Citizen Fitness Test Biomechanics & Sports Meaning and Importance of Biomechanics in Sports Types of movements (Flexion, Extension, Abduction & Adduction) Newton's Law of Motion & its application in sports 		10	 Training in Sports Strength – Definition, types & methods of improving Strength – Isometric, Isotonic & Isokinetic Endurance - Definition, types & methods to develop Endurance – Continuous Training, Interval Training & Fartlek Training Speed – Definition, types & methods to develop Speed – Acceleration Run & Pace Run Flexibility – Definition, types & methods to improve flexibility Coordinative Abilities – Definition & types 		
TERM I – PRACTICAL			TE	RM II – PRACTICAL	
Project File		05 Ma	Project File		05
(About one spo	ort/game of	rks	(Yoga and General Motor		Marks
choice)			Fitness Test)		
Demonstration of Fitness		05 Ma	Demonstration of Fitness 05		05
Activity		rks	Activity/Yoga Marks		Marks
Viva Voce (From Project File;		05	Viva Voce (From Project File; 05		05
Fitness)		Marks	General Moto	r Fitness; Yoga)	Marks

*For resource material refer Class XII Physical Education Handbook available at Board's Academic website: <u>www.cbseacademic.nic.in</u>

SYLLABUS URDU CORE CODE -303

CLASS XI 2021-22

TIME:-	90 Min	SUBJECT- URDU FIRST TERM	M.M. 40
		Reading and Comprehension	
ے جن میں بی میں سے)دیئے جا ئیں گے ۔ اقتباس یا شعر ک گے ۔	یر درسی اقتباسات (ایک نثری ایک شعری رنے ہونگے ۔ اقتباس پانچ نمبر کے ہوں گے۔ نچ سوال ہوں گے – کثیر انتخابی سوالات ہوں	* دو غ سے کوئی ایک افتباس ک ہی ایک ایک نمبر کے پا
1x5 =5			
واب والمے	لے پر مشتمل ج	رت فہمی اور شعر فہمی سے متعلق ایک جما -	* ہر اقتباس مین عبار سوالات دیے جائیں گے
ایک ایک کے جواب	گے یہ سوالات میں آٹھ سوالوں	عد کے متعلق کثیر انتخابی سوالات دیے جائیں 1x8=8نمبر کے ہونگے جن	* اسم کے اقسام – قوا
			دیئے جایں گے
		معرفہ لنکرہ	*
		ضمیر کی قسمیں	*
		متكلم حاضر غائب	*
		ىميں	* صفت کی قد
ن میں سے)20 الفاظ پر قتباس میں ف نمبر کے	ےجا ئیں گے ج اس 150 سے (ے جایں گے ہر ا سے ہی ایک ایک	درسی اقتباسات (ایک نثری ایک شعری)دیے وگا ۔ اقتباس پانچ نمبر کے ہوں گے نثری اقتب کا شعری اقتباس میں دو بند یاپانچ اشعار دیے سوالات پوچھے جایں گے ۔ میں ہ وں گے – کثیر انتخابی سوالات ہوں گے ۔	* کوئی ایک اقتباس کرنا ہو یا حسب نمبر مشتمل ہو عبارت فہمی سے متعلق پانچ سوال ہ

Part B - Writing Skill

* درسی کتاب سے متعلق سوالات پوچھے جائیں گے یہ سوال دو ، دو نمبر کے ہونگے اضافی سوالات کے ساتھ جن دو نمبر کے ہونگے اضافی سوالات کے ساتھ جن دو نمبر کے دو سوالات کے جواب دینے ہو ں گے ان کے مجموعی نمبر 6 ہوں گے کی ہوں گے ۔

* درج ذیل اصناف دے کر کسی ایک پر مشہور افسانہ مضمون نگار کے حالات زنددگی تاریخ پیدائش وغیرہ پرمستعمل سوال دیا جائیگا کثیر انتخابی سوالات ہوں گے ۔ 6

6

10

SYLLABUS URDU CORE CODE -303

CLASS XI 2021-22

TIME:- 120 Min	SUBJECT- URDU	M.M. 40
	SECOND TERM	

Part A- Reading and Comprehension

حصہ الف (عبارت فہمی ، شعر فہمی اور قواعد) * دو غیر درسی اقتباسات (ایک نثری ایک شعری) دئے جا پیں گے جن میں سے کوئی ایک اقتباس کرنے ہونگے ۔ اقتباس پانچ نمبر کے ہوں گے۔

1x5 =5

* ہر اقتباس میں عبارت فہمی اور شعر فہمی سے متعلق ایک جملے پر مشتمل جو اب والے سوالات دیے جائیں گے ۔

* اسم کی قسمیں – قواعد کے متعلق کثیر انتخابی سوالات دیے جائیں گے یہ سوالات ایک ایک نمبر کے ہونگے جن میں آٹھ سوالوں کے جواب دینے ہونگے ۔

8

* نکرہ * ضمیر کی قسمیں * متکلم حاضر غائب * صفت کی قسمیں

Part B – Writing Skill

حصہ ب تحریری مہارت

دو در سی اقتباسات (ایک نثری ایک شعری)دئے جا ئیں گے جن میں سے کوئی ایک اقتباس کرنے ہونگے ۔ اقتباس پانچ نمبر کے ہوں گے نثری اقتباس 150 سے 200 الفاظ پر مشتمل ہوں گرشعری اقتباس میں دو بند پانچ اشعار دیے جائیں گے ہر اقتباس عبارت فہمی سے متعلق سوالات پوچھے جائیں گے ۔ 5

درسی کتاب سے کثیر انتخابی سوالات دئے جائیں گے یہ سوالات ایک ایک نمبر کے ہونگے چار اضافی سوالوں کے جواب دینے ہونگے ۔ 5 * در سی کتاب سے متعلق سوالات پوچھے جائیں گے یہ سوال دو اور تین نمبر کے ہونگے اضافی سولات کے ساتھ جن دو نمبر کے دو سوالات کے جواب دینے ہو ں گے ان کے مجموعی نمبر 4 ہونگے تین نمبر کا ایک 7 * درج ذيل اصناف سوال ہوگا ان کے مجموعی نمبر 3 ہونگے۔ دے کر کسی ایک پر نوٹ لکھوایا جائے گا

5 1 - ڈر امہ 2 - غزل 3 - نظم 4 - گىت 250 سے 300 الفاظ پر مشتمل مضمون لکھوایا جائےگا مندرجہ عنوانات نیچے لکھے

5 ہیں ۔

پسانديده كهيل

یادگار سفر انٹر نیٹ کے فائدے اور نقصانات يسنديده شاعر بمارا وطن *در خو است نگار ی نجي، ذاتي ، دفتري ، سوسائڻي

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SYLLABUS URDU CORE CODE -303

CLASS XII 2021-22

TIME:-	90 Min	SUBJECT- URDU	M.M. 40
		FIRST TERM	

Part A- B MCQ

Reading and Comprehension

حصم (الف) عبارات فہمی اور شعر فہمی

* دو غیر درسی اقتباسات (ایک نثری ایک شعری)دیئے جا ئیں گے جن میں سے 1x5کوئی ایک اقتباس کرنے ہونگے ۔ اقتباس سےپانچ نمبر سوالات ایک ایک نمبر کا ہوگا کثیر انتخابی سوالات ہوں گے۔

* ہر اقتباس مین عبارت فہمی اور شعر فہمی سے متعلق ایک جملے پر مشتمل جواب والے سوالات دیے جائیں گے ۔

* درسی کتاب سے قواعد کے متعلق کثیر انتخابی سوالات دئے جائیں گے یہ سوالات ایک ایک ison درسی کتاب سے قواعد کے متعلق کثیر انتخابی سوالات دینے ہوں گے ۔

5

5

* دو درسی اقتباسات (ایک نثری ایک شعری)دیئے جا ئیں گے جن میں سے کوئی ایک اقتباس کرنا ہوگا ۔ اقتباس پانچ نمبر کے ہوں گے نثری اقتباس حسب نمبر اور الفاظ پر مشتمل ہو گا شعری اقتباس میں دو بند یا پانچ اشعار دئے جایں گے ہر اقتباس میں عبارت فہمی ، الفاظ معنی، متضاد ، محاور ے ،سے متعلق سو الات پوچھے جائیں گے ۔ سو الات ایک ایک نمبر کا ہوگا کثیر انتخابی سو الات ہوں گے ۔

Part B Writing

حصہ ب (تحریری مہارت) * درسی کتاب سبق سے متعلق سوالات پوچھے جائیں گے یہ سوال دو دو نمبر کے ہونگے چار اضافی جواب کے ساتھ پانچ سوال ہوں گے ہو ں گے سارے سوالات و جوابات کثیر انتخابی ہوں گے ۔ 10

* درج ذیل اصناف دے کر کسی ایک پر مشہور افسانہ مضمون نگار کے حالات زنددگی تاریخ پیدائش وغیرہ پر مستعمل سوال دیا جائیگا کثیر انتخابی سوالات ہوں گے ۔ 5

- 1 مضمون
 - 2- انشایئہ
- 3 افسانہ
- 4 مکتوب نگاری
- * درسی کتاب کے متعلق نوٹ

* درسی کتاب میں دیئے گیئے نثری اسباق کا عنوان موضوع ، مرکزی خیال الفاظ معنی وغیرہ میں پانچ سوال دیئے جائے گے میں پانچ سوال دیئے جائے گے کثیر انتخابی سوالات ہوں گے ۔

درسی کتاب میں دیئے گئے شعری اسباق کا خلاصہ مرکزی خیالات، مقاصد، پیغام، الفاظ
 معنی، شاعر کے حالات زندگی ،میں سے پانچ سوال
 دئے جائے گے اور جواب
 لکھوایا جائیگا ۔

SYLLABUS URDU CORE CODE -303

CLASS XII 2021-22

TIME:- 120 Min	SUBJECT- URDU	M.M. 40
	SECOND TERM	

Part A-

Reading and Comprehension 40

Reading and Comprehension

حصم (الف) عبارات فہمی اور شعر فہمی

دو غیر درسی اقتباسات (ایک نثری ایک شعری)دیے جا ئیں گے جن میں سے کوئی ایک اقتباس کرنے ہونگے ۔ اقتباس پانچ نمبر کے

کے ہوں گے ۔

5

* ہر اقتباس مین عبارت فہمی اور شعر فہمی سے متعلق ایک جملے پر مشتمل جواب والے سوالات دیے جائیں گے ۔

حصم الف (ب) عملي قواعد

* درسی کتاب سےقواعد کے متعلق کثیر انتخابی سوالات دئے جائیں گے یہ سوالات ایک ایک
 نمبر کے ہونگے چار اضافی سوالوں کے جواب دینے ہوں گے ۔

* دو درسی اقتباسات (ایک نثری ایک شعری)دیے جا ئیں گے جن میں سے کوئی ایک اقتباس کرنا ہوگا ۔ اقتباس پانچ نمبر کے ہوں گے نثری اقتباس 150 سے 200 الفاظ پر مشتمل ہو گا شعری اقتباس میں دو بند یاپانچ اشعار دیے جایں گے ہر اقتباس میں عبارت فہمی سے متعلق سوالات پوچھے جایں گے ۔

حصہ ب (تحریری مہارت) * درسی کتاب سے متعلق سوالات پوچھے جائیں گے یہ سوال دو اور تین نمبر کے ہونگے اضافی سوالات کے ساتھ جن دو نمبر کے دو سوالات کے جواب دینے ہو ں گے ان کے مجموعی نمبر 4 ہونگے تین نمبر کا ایک سوال ہوگا ان کے مجموعی نمبر 6 ہونگے کل نمبر * مندرجہ ذیل چار اصناف میں سے کسی ایک پر نوٹ لکھایا 10 جابئگا ۔ 5 ۔ ڈرامہ 1 ناول -2 مثنوئ - 3 نظم - 4 * در سی کتاب میں دیئے گیئے نثری اسباق کا خلاصہ ، مرکزی خیالات و غیرہ میں دو عنوان دیئے جائے گے کسی ایک پر نوٹ لکھوایا جائے گا۔ 5 * مضون نگارییا خطوط نگاری ذاتی ، کاروباری ، دفتری ، 5 250 سر 300 الفاظ پر مستعمل مضمون لکھوایا جائے کسی ایک کا 1 - يوم آزادى 2- میر ا پساندیده شاعر یا استاد 3 موبائل کے فایدئے اور نقصانات 4 يادگار سفر