

Evaluation and Promotion System

Classes IX and X

The instructions of the Board will be followed strictly in these classes :

1. The student must get 33% marks in each subject in aggregate to qualify himself/herself for promotion to the next higher class.
2. Final result will comprise the marks of
Annual Examination – 80 marks
Internal Assessment – 20 marks
Aggregate – 100 marks
3. Internal Assessment comprises Periodic Tests, Portfolio, Multiple Assessment and Subject Enrichment Activities (subject to the guidelines of CBSE).

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SYLLABUS FOR SESSION 2023-2024

CLASS - X

ENGLISH COMMUNICATIVE (101)

SECTION WISE WEIGHTAGE

Section		Total Weightage
A	Reading Skills	22
B	Writing Skills	22
C	Grammar	10
D	Literature Textbook	26
	Total	80

Section-A : Reading (12 + 10 = 22 Marks)

- The section will have two unseen passages with the maximum word limit of 750 words. The passages can have continuous and non-continuous text inspired from the themes in prescribed books.
- Objective Type Questions (including Multiple Choice Questions), Very Short Answer Type Questions (One word / One phrase / One Sentence) and Short Answer Type Questions (30-40 words each) will be asked to test interpretation, analysis, inference, evaluation and vocabulary in context.

Section-B : Writing Skills (22 Marks)

- E-mail to school authorities (Application for leave / change of subject / change of section / bus-timings or similar topics) in maximum 50 words. (3 marks)
- Factual Description of a person / object in maximum 100 words. (4 marks)

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- One out of two formal letters in maximum 120 words. (7 marks)
- One out of two articles based on verbal cues, in maximum 150 words. (8 marks)

Section-C (Grammar) (10 marks)

1. Tenses
2. Modals
3. Subject-Verb Concord
4. Reported Speech
 - Commands and Requests
 - Statements
 - Questions
5. Clauses :
 - Noun Clauses
 - Adverb Clauses
 - Relative Clauses
6. Determiners

The above items may be tested through test types as given below :

- Gap filling (3 marks)
- Editing or Omission (4 marks)
- Sentences Reordering or Sentence Transformation in Context (3 marks)

Section-D (Literature Textbook) (26 Marks)

- Two out of three extracts from prose / poetry for reference to the context. Very Short Answer Questions will be asked to assess global comprehension, interpretation, inference and evaluation. (4+4=8 marks)

- Five Short Answer Type Questions out of six from the Literature Reader to test local and global comprehension of theme and ideas, analysis, evaluation and appreciation (30-40 words each). (5×2=10 marks)
- One out of two Long Answer Type Questions to assess how the values inherent in the text have been brought out. Creativity, evaluation and extrapolation beyond the text and across the texts will be assessed. This can also be a passage-based question taken from a situation/plot from the texts. (150 words)

(8 marks)

Prescribed Books : Interact in English Series by CBSE

- Main Course Book (Revised Edition)
- Literature Reader (Revised Edition)
- Workbook (Revised Edition)

HINDI (B) (085)

- पुस्तकें : 1. स्पर्श भाग-II (एन.सी.ई.आर.टी.)
 2. संचयन भाग-II (पूरक पुस्तक) (एन.सी.ई.आर.टी.)
 3. व्याकरण संबोध (मधुबन एजुकेशन)

- नोट : * प्रश्न पत्र दो खंडों-खंड 'अ' तथा 'ब' से होगा।
 * खंड 'अ' में 45 वस्तुपरक प्रश्न पूछे जाएँगे, जिनमें से केवल 40 प्रश्नों के ही उत्तर देने होंगे।
 * खंड 'ब' में वर्णनात्मक प्रश्न पूछे जाएँगे। प्रश्नों में उचित आंतरिक विकल्प दिए जाएँगे।
 * भारांक-80 (वार्षिक परीक्षा) + 20 (आंतरिक परीक्षा)
 * कुल अंक-100

परीक्षा भार विभाजन		
	विषयवस्तु	भार
	खंड अ (वस्तुपरक प्रश्न)	40
1.	अपठित गद्यांश	10
	अ दो अपठित गद्यांश (लगभग 200 शब्दों के) (1×5=5)+(1×5=5) (प्रत्येक गद्यांश पर आधारित पाँच बहुविकल्पीय प्रश्न पूछे जाएँगे)	10
2.	व्यावहारिक व्याकरण के आधार पर बहुविकल्पात्मक प्रश्न (1×16=16) कुल 21 प्रश्न पूछे जाएँगे, जिनमें से केवल 16 प्रश्नों के उत्तर देने होंगे।	16
	1 पदबंध (5 में से 4 प्रश्न)	04
	2 रचना के आधार पर वाक्य रूपांतरण (5 में से 4 प्रश्न)	04
	3 समास (5 में से 4 प्रश्न)	04
	4 मुहावरे (6 में से 4 प्रश्न)	04
3.	पाठ्यपुस्तक स्पर्श भाग-2	14
	काव्य खंड	07
	पठित पद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न। (1×5)	05
	स्पर्श (भाग-2) से निर्धारित कविताओं के आधार पर एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे।	02
	गद्य खंड	07
	पठित गद्यांश पर एक अंकीय पाँच बहुविकल्पी प्रश्न। (1×5)	05
	स्पर्श (भाग-2) से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमताओं एवं अभिव्यक्ति का आकलन करने हेतु एक अंकीय दो बहुविकल्पी प्रश्न पूछे जाएँगे। (1×2)	02

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खंड - व (वर्णनात्मक प्रश्न)			40
4	पाठ्यपुस्तक स्पर्श भाग-2		12
	1	स्पर्श (गद्य खंड) से निर्धारित पाठों के आधार पर तीन में से दो प्रश्न पूछे जाएँगे। (3 अंक × 2 प्रश्न) (लगभग 60 शब्द)	06
	2	स्पर्श (काव्य खंड) से निर्धारित पाठों के आधार पर तीन में से दो प्रश्न पूछे जाएँगे। (3 अंक × 2 प्रश्न) (लगभग 60 शब्द)	06
	पूरक पुस्तक संचयन भाग-2		06
	पूरक पुस्तक संचयन के निर्धारित पाठों से तीन में से दो प्रश्न पूछे जाएँगे, जिनका उत्तर लगभग 60 शब्दों में देना होगा। (3 अंक × 2 प्रश्न)		06
5	लेखन		22
	I	संकेत बिंदुओं पर आधारित समसामयिक एवं व्यावहारिक जीवन से जुड़े हुए किन्हीं तीन विषयों में से किसी एक विषय पर लगभग 100 शब्दों में अनुच्छेद लेखन। (5 अंक × 1 प्रश्न) (विकल्प सहित)	05
	II	अभिव्यक्ति की क्षमता पर केंद्रित औपचारिक विषयों में से किसी एक विषय पर लगभग 100 शब्दों में पत्र। (5 अंक × 1 प्रश्न)	05
	III	व्यावहारिक जीवन से संबंधित विषयों पर आधारित लगभग 60 शब्दों में सूचना लेखन। (4 अंक × 1 प्रश्न) (विकल्प सहित)	04
	IV	विषय से संबंधित लगभग 40 शब्दों के अंतर्गत विज्ञापन लेखन। (3 अंक × 1 प्रश्न) (विकल्प सहित)	03

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V	<p>दिए गए विषय/शीर्षक आदि के आधार पर रचनात्मक सोच के साथ लगभग 100 शब्दों में लघुकथा लेखन। (5 अंक × 1 प्रश्न)</p> <p>अथवा</p> <p>विविध विषयों पर आधारित लगभग 100 शब्दों में औपचारिक ई-मेल लेखन</p>	05
कुल		80
आंतरिक मूल्यांकन		
(अ)	सामयिक आकलन	20
(ब)	बहुविध आकलन	05
(स)	पोर्टफोलियो	05
(द)	श्रवण एवं वाचन	05
पाठ्य पुस्तक (स्पर्श भाग-2)		
(गद्य खंड)		
1.	प्रेमचंद - बड़े भाई साहब	
2.	सीताराम सेक्सरिया - डायरी का एक पन्ना	
3.	लीलाधर मंडलोई - ततौरा-वामीरो कथा	
4.	प्रह्लाद अग्रवाल - तीसरी कसम के शिल्पकार	
5.	निदा फ़ाज़ली - अब कहाँ दूसरे के दुख से दुखी होने वाले	
6.	रवींद्र केलेकर - पतझड़ में टूटी पत्तियाँ	
7.	हबीब तनवीर - कारतूस	
(काव्य खंड)		
1.	कबीर - साखी	
2.	मीरा - पद	
3.	मैथिलीशरण गुप्त - मनुष्यता	

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- सुमित्रानंदन पंत - पर्वत प्रदेश में पावस
- वीरेन डंगवाल - तोप
- कैफ़ी आज़मी - कर चले हम फ़िदा
- रवींद्रनाथ ठाकुर - आत्मत्राण

संचयन भाग-2 (पूरक पुस्तक)

- मिथिलेश्वर - हरिहर काका
- गुरुदयाल सिंह - सपनों के से दिन
- राही मासूम रज़ा - टोपी शुक्ला

नोट : निम्नलिखित पाठों से प्रश्न नहीं पूछे जाएंगे।

पाठ्य पुस्तक स्पर्श, भाग-2

- बिहारी-दोहे (पूरा पाठ)
- महादेवी वर्मा-मधुर-मधुर मेरे दीपक जल
- अंतोन चेखव-गिरगिट

पूरक पुस्तक संचयन, भाग-2

पुस्तक में कोई परिवर्तन नहीं। कोई भी पाठ नहीं हटाया गया है।

PUNJABI

ਪਾਠ-ਪੁਸਤਕਾਂ : 1. ਸਾਹਿਤ ਮਾਲਾ-10

2. ਵੰਨਗੀ-10

3. ਗੋਲਡਨ ਪੰਜਾਬੀ ਵਿਆਕਰਨ ਅਤੇ ਲਿਖਤ ਰਚਨਾ
(ਨਰਿੰਦਰ ਸਿੰਘ ਦੁੱਗਲ)

I. ਪੜ੍ਹਨ-ਕੌਸ਼ਲ

(10)

1. ਅਣਡਿੱਠਾ ਪੈਰਾ (ਵਾਰਤਕ)

2. ਅਣਡਿੱਠੀ ਕਾਵਿ-ਟੁਕੜੀ

II. ਵਿਆਕਰਨ :

(12)

3. ਸਮਾਸੀ ਸ਼ਬਦ (ਬਹੁ-ਵਿਕਲਪੀ)

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4. ਬਹੁ-ਅਰਥਕ (ਬਹੁ-ਵਿਕਲਪੀ)
5. ਕਿਰਿਆ ਵਿਸ਼ੇਸ਼ਣ (ਬਹੁ-ਵਿਕਲਪੀ)
6. ਅਗੋਤਰ-ਪਿਛੇਤਰ (ਸ਼ਬਦ ਬਣਾਉਣਾ)
7. ਮੁਹਾਵਰੇ (ਕ ਤੋਂ ਝ ਤੱਕ) ਵਾਕਾਂ ਵਿੱਚ ਵਰਤ ਕੇ ਅਰਥ ਸਪੱਸ਼ਟ ਕਰਨਾ।

III. ਪ੍ਰਭਾਵਸ਼ਾਲੀ ਲਿਖਣ ਕੌਸ਼ਲ (18)

8. ਲੇਖ ਰਚਨਾ (ਵਿਚਾਰ ਪ੍ਰਧਾਨ ਅਤੇ ਆਮ ਵਿਸ਼ੇ)
9. ਪੱਤਰ-ਰਚਨਾ (ਨਿੱਜੀ ਤੇ ਬਿਨੈ-ਪੱਤਰ)
10. ਚਿੱਤਰ / ਫੋਟੋ/ਤਸਵੀਰ (ਦ੍ਰਿਸ਼) ਦੇ ਅਧਾਰ 'ਤੇ

IV. ਪਾਠ-ਪੁਸਤਕਾਂ 'ਤੇ ਅਧਾਰਤ (40)

- ਅਤਿ ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ (ਬਹੁ-ਵਿਕਲਪੀ)
11. ਕਹਾਣੀ ਤੇ ਵਾਰਤਕ ਵਿੱਚੋਂ (ਬਹੁ-ਵਿਕਲਪੀ) ਚੋਣ ਅਧਾਰਤ
 12. ਕਵਿਤਾ ਤੇ ਇਕਾਂਗੀ ਵਿੱਚੋਂ (ਬਹੁ-ਵਿਕਲਪੀ) ਚੋਣ ਅਧਾਰਤ
 13. ਕਹਾਣੀ ਤੇ ਵਾਰਤਕ ਵਿੱਚੋਂ (ਇੱਕ ਜਾਂ ਦੋ ਸ਼ਬਦਾਂ ਵਾਲੇ, ਚੋਣ ਅਧਾਰਤ)
- ਛੋਟੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ :
14. ਕਹਾਣੀ ਤੇ ਇਕਾਂਗੀ ਵਿੱਚੋਂ (25-30 ਸ਼ਬਦਾਂ ਵਿੱਚ ਚੋਣ ਅਧਾਰਤ)
- ਵੱਡੇ ਉੱਤਰਾਂ ਵਾਲੇ ਪ੍ਰਸ਼ਨ :
15. ਕਵਿਤਾ ਤੇ ਵਾਰਤਕ ਵਿੱਚੋਂ (50 ਤੋਂ 60 ਸ਼ਬਦਾਂ ਵਿੱਚ ਚੋਣ ਅਧਾਰਤ)
 16. ਇਕਾਂਗੀ 'ਚੋਂ ਵੱਡੇ ਉੱਤਰਾਂ ਵਾਲੇ (50 ਤੋਂ 60 ਸ਼ਬਦਾਂ ਵਿੱਚ ਚੋਣ ਅਧਾਰਤ)

ਨਿਰਧਾਰਤ ਪਾਠ ਪੁਸਤਕਾਂ

1. ਸਾਹਿਤ-ਮਾਲਾ-10 (ਪੰਜਾਬੀ ਕਵਿਤਾ ਤੇ ਵਾਰਤਕ)

(ਪ੍ਰਕਾਸ਼ਕ-ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ)

ਕਾਵਿ-ਰਚਨਾਵਾਂ :

1. ਸੋ ਕਿਉਂ ਮੰਦਾ ਆਖੀਐ (ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਜੀ)
2. ਕਿਰਪਾ ਕਰਿ ਕੈ ਬਖਸਿ ਲੈਹੁ (ਗੁਰੂ ਅਮਰਦਾਸ ਜੀ)
3. ਤੂੰ ਮੇਰਾ ਪਿਤਾ ਤੂੰ ਹੈ ਮੇਰਾ ਮਾਤਾ (ਗੁਰੂ ਅਰਜਨ ਦੇਵ ਜੀ)
4. ਸਤਿਗੁਰੂ ਨਾਨਕ ਪ੍ਰਗਟਿਆ (ਭਾਈ ਗੁਰਦਾਸ ਜੀ)
5. ਜੋਗ ਦਾ ਹਾਲ (ਸ਼ਾਹ ਮੁਹੰਮਦ)

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ਵਾਰਤਕ :

1. ਘਰ ਦਾ ਪਿਆਰ (ਪ੍ਰਿ. ਤੇਜਾ ਸਿੰਘ)
 2. ਬੋਲੀ (ਸ. ਗੁਰਬਖਸ਼ ਸਿੰਘ)
 3. ਪ੍ਰਾਰਥਨਾ (ਡਾ. ਬਲਬੀਰ ਸਿੰਘ)
 4. ਮੇਰੇ ਵੱਡੇ ਵਡੇਰੇ (ਗਿਆਨੀ ਗੁਰਦਿੱਤ ਸਿੰਘ)
 5. ਤੁਰਨ ਦਾ ਹੁਨਰ (ਡਾ. ਨਰਿੰਦਰ ਸਿੰਘ ਕਪੂਰ)
2. ਵੰਨਗੀ-10 (ਪੰਜਾਬੀ ਕਹਾਣੀਆਂ ਤੇ ਇਕਾਂਗੀ)
- (ਪ੍ਰਕਾਸ਼ਕ-ਪੰਜਾਬ ਸਕੂਲ ਸਿੱਖਿਆ ਬੋਰਡ)

ਕਹਾਣੀਆਂ :

1. ਕੁਲਫੀ (ਸੁਜਾਨ ਸਿੰਘ)
2. ਅੰਗ-ਸੰਗ (ਵਰਿਆਮ ਸਿੰਘ ਸੰਧੂ)
3. ਧਰਤੀ ਹੇਠਲਾ ਬਲਦ (ਕੁਲਵੰਤ ਸਿੰਘ ਵਿਰਕ)

ਇਕਾਂਗੀ :

1. ਜਫ਼ਰਨਾਮਾ (ਡਾ. ਹਰਚਰਨ ਸਿੰਘ)
2. ਦੂਜਾ ਵਿਆਹ (ਸੰਤ ਸਿੰਘ ਸੇਖੋਂ)

MATHEMATICS

Book : Mathematics Textbook for Class-X NCERT
Course Structure

Units	Unit Name	Marks
I	Number Systems	06
II	Algebra	20
III	Coordinate Geometry	06
IV	Geometry	15
V	Trigonometry	12
VI	Mensuration	10
VII	Statistics and Probability	11
	Total	80

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Unit I : Number Systems	
1. Real Numbers	
Unit II : Algebra	
1. Polynomials	
2. Pair of Linear Equations in two variables	
3. Quadratic Equations	
4. Arithmetic Progressions	
Unit III : Coordinate Geometry	
1. Coordinate Geometry	
Unit IV : Geometry	
1. Triangles	
2. Circles	
Unit V : Trigonometry	
1. Introduction to Trigonometry	
2. Heights and Distances	
Unit VI : Mensuration	
1. Areas Related to Circles	
2. Surface Areas and Volumes	
Unit VII : Statistics and Probability	
1. Statistics	
2. Probability	
Internal Assessment	20 Marks
Pen Paper Test and Multiple Assessment (5 + 5)	10 Marks
Portfolio	05 Marks
Lab Practical	05 Marks

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SCIENCE (086)	
Book : NCERT Science	
Theory (80 marks)	
Question Paper Design	
Competencies	Total
Demonstrate Knowledge and Understanding	46%
Application of Knowledge/Concepts	22%
Formulate, Analyze, Evaluate and Create	32%
	100%
Note :	
<ul style="list-style-type: none"> • Typology of Questions : VSA including objective type questions, Assertion – Reasoning type questions; SA; LA; Source-based/ Case-based/ Passage-based/ Integrated assessment questions. • An internal choice of approximately 33% would be provided. 	
Internal Assessment (20 Marks)	
<ul style="list-style-type: none"> • Periodic Assessment - 05 marks + 05 marks • Subject Enrichment (Practical Work) - 05 marks • Portfolio - 05 marks 	
General Instructions :	
<ol style="list-style-type: none"> 1. There will be an Annual Examination based on the entire syllabus. 2. The Annual Examination will be of 80 marks and 20 marks weightage shall be for Internal Assessment. 3. For Internal Assessment : <ol style="list-style-type: none"> (a) There will be Periodic Assessment that would include : <ul style="list-style-type: none"> • For 5 marks- Three periodic tests conducted by the school. Average of the best two tests to be 	

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taken that will have a weightage of 05 marks towards the final result.

- For 5 marks- Diverse methods of assessment as per the need of the class dynamics and curriculum transaction. These may include - short tests, oral test, quiz, concept maps, projects, posters, presentations and enquiry based scientific investigations etc. and use rubrics for arguing them objectively. This will also have a weightage of 05 marks towards the final result.
- (b) Practical / Laboratory work should be done throughout the year and the student should maintain record of the same. Practical Assessment should be continuous. There will be weightage of 5 marks towards the final result. All practicals listed in the syllabus must be completed.
- (c) Portfolio to be prepared by the student- This would include classwork and other sample of student work and will carry a weightage of 5 marks towards the final results.

Course Structure (Annual Examination)

Marks : 80

Unit No.	Unit	Marks
I	Chemical Substances-Nature and Behaviour	25
II	World of Living	25
III	Natural Phenomena	12
IV	Effects of Current	13
V	Natural Resources	05
	Total	80
	Internal Assessment	20
	Grand Total	100

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Theme : Materials

Unit-I : Chemical Substances-Nature and Behaviour

Chemical reactions : Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions : combination, decomposition, displacement, double displacement, precipitation, endothermic & exothermic reactions, oxidation and reduction.

Acids, bases and salts : Their definition in terms of furnishing of H^+ and OH^- ions, General properties, examples and uses, neutralization, concept of pH scale (Definition relating to logarithm not required), importance of pH in everyday life; preparation and uses of Sodium Hydroxide, Bleaching powder, Baking soda, Washing soda and Plaster of Paris.

Metals and non-metals : Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention.

Carbon compounds : Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes), difference between saturated hydrocarbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (Only properties and uses), soaps and detergents.

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Theme : The World of the Living

Unit-II : World of Living

Life Processes : 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.

Control and co-ordination in animals and plants : Tropic movements in plants; Introduction of plant hormones; Control and co-ordination in animals : Nervous system; Voluntary, involuntary and reflex action; Chemical co-ordination; animal hormones.

Reproduction : Reproduction in animals and plants (asexual and sexual) reproductive health - need and methods of family planning. Safe sex vs HIV/AIDS. Child bearing and women's health.

Heredity and Evolution : Heredity; Mendel's contribution-Laws for inheritance of traits : Sex determination : brief introduction : (topics excluded - evolution; evolution and classification and evolution should not be equated with progress).

Theme : Natural Phenomena

Unit III : Natural Phenomena

Reflection of light by curved surfaces; Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification.

Refraction; Laws of refraction, refractive index.

Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens.

Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses.

Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life (excluding colour of the sun at sunrise and sunset).

Theme : How Things Work

Unit IV : Effects of Current

Electric current, potential difference and electric current. Ohm's law; Resistance, Resistivity, Factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.

Magnetic effects of current : Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Direct current. Alternating current : frequency of AC. Advantage of AC over DC. Domestic electric circuits.

Theme : Natural Resources

Unit V : Natural Resources

Our environment : Eco-system, Environmental Problems, Ozone depletion, Waste production and their solutions. Biodegradable and non-biodegradable substances.

Note :

1. The chapter Management of Natural Resources (NCERT Chapter 16) will not be assessed in the year-end examination. However, learners may be assigned to read this chapter and encouraged to prepare a brief write up to any concept of this chapter in their Portfolio. This may be for Internal Assessment and credit may be given Periodic Assessment/Portfolio.
2. The NCERT text books present information in boxes across the book. These help students to get conceptual clarity. However, the information in these boxes would not be assessed in the year-end examination.

PRACTICALS

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

LIST OF EXPERIMENTS

1. A. Find the pH of the following samples by using pH paper/universal indicator : **Unit-I**
 - (i) Dilute Hydrochloride Acid
 - (ii) Dilute NaOH solution
 - (iii) Dilute Ethanoic Acid solution
 - (iv) Lemon juice
 - (v) Water
 - (vi) Dilute Hydrogen Carbonate solution
- B. Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with : **Unit-I**
 - (a) Litmus solution (Blue/Red)

- (b) Zinc metal
- (c) Solid sodium carbonate

2. Performing and observing the following reactions and classifying them into : **Unit-I**

- A. Combination reaction
- B. Decomposition reaction
- C. Displacement reaction
- D. Double displacement reaction

- (i) Action of water on quicklime
- (ii) Action of heat on ferrous sulphate crystals
- (iii) Iron nails kept in copper sulphate solution
- (iv) Reaction between sodium sulphate and barium chloride solution

3. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions : **Unit-I**

- (i) ZnSO_4 (aq)
- (ii) FeSO_4 (aq)
- (iii) CuSO_4 (aq)
- (iv) $\text{Al}_2(\text{SO}_4)_3$ (aq)

Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result.

4. Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I. **Unit-IV**

5. Determination of the equivalent resistance of two resistors when connected in series and parallel. **Unit-IV**

6. Preparing a temporary mount of a leaf peel to show stomata. **Unit-II**
7. Experimentally show that carbon dioxide is given out during respiration. **Unit-II**
8. Study of the following properties of acetic acid (ethanoic acid) : **Unit-I**
- (i) Odour
 - (ii) Solubility in Water
 - (iii) Effect on litmus
 - (iv) Reaction with Sodium Hydrogen Carbonate
9. Study of the comparative cleaning capacity of a sample of soap in soft and hard water. **Unit-I**
10. Determination of the focal length of : **Unit-III**
- (i) Concave mirror
 - (ii) Convex lens
- by obtaining the image of a distant object.
11. Tracing the path of ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result. **Unit-III**
12. Studying (a) binary fission in *Amoeba*, and (b) budding in yeast and Hydra with the help of prepared slides. **Unit-II**
13. Tracing the path of the rays of light through a glass prism. **Unit-III**
14. Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean). **Unit-II**

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SOCIAL SCIENCE

Prescribed Text Books :

1. History – India and the Contemporary World-II (NCERT)
2. Political Science – Democratic Politics (NCERT)
3. Geography – Contemporary India (NCERT)
4. Economics – Understanding Economic Development (NCERT)

COURSE STRUCTURE

1. History (India and Contemporary World-II)

Marks allotted – 20 [18+2 (Map)]

Section	Ch.No.	Chapter Name
I Events and Processes	I	The Rise of Nationalism in Europe
	II	Nationalism in India
II Livelihoods, economies and societies	III	The Making of a Global World To be Evaluated in the Board Examination • Subtopics 1 to 1.3 Pre modern world to Conquest, Disease and Trade
		For Inter Disciplinary Project • Sub topics 2 to 4.4 The nineteenth century (1815-1914) to End of Bretton woods & the beginning of 'Globalisation'
	IV	The Age of Industrialization (To be assessed in the periodic assessment)

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III Everyday Life, Culture and Politics	V	Print Culture and the Modern World
2. Geography (Contemporary India-II) Marks allotted – 20 [17+3 (Map)]		
Ch.No.	Chapter Name	
1	Resources and Development	
2	Forest and Wildlife Resources	
3	Water Resources	
4	Agriculture	
5	Minerals and Energy Resources	
6	Manufacturing Industries	
7	Lifelines of National Economy Only Map pointing to be evaluated in the Board Examination Inter disciplinary Project as part of Multiple assessment (Internally assessed for 5 marks)	
3. Political Science (Democratic Politics-II) Marks allotted – 20		
Unit No.	Ch.No.	Chapter Name
I	1	Power-Sharing
	2	Federalism
II	3	Gender, Religion and Caste
III	4	Political Parties
IV	5	Outcomes of Democracy

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4. Economics (Understanding Economic Development)		
Marks allotted – 20		
Ch.No.	Chapter Name	
1	Development	
2	Sectors of the Indian Economy	
3	Money and Credit	
4	Globalisation And The Indian Economy To be evaluated in the Board Examination. • What is Globalization ? • Factors that have enabled Globalisation	
	For Inter Disciplinary project; • Production across the countries • Chinese toys in India • World trade organisation • The Struggle For a Fair Globalisation	
5	Consumer Rights (Project Work)	
<div>LIST OF MAP ITEMS</div>		
Subject	Name of the Chapter	List of Areas to be pointed on the Map
History	Nationalism in India	I. Congress Sessions : • 1920 Calcutta • 1920 Nagpur • 1927 Madras session. II. 3 Satyagraha Move-ments : • Kheda

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		<ul style="list-style-type: none"> • Champaran • Ahmedabad mill workers III. Jallianwala Bagh IV. Dandi march
Geography	Resources and Development	Identify : Major soil Types
	Water Resources	Locating and Labelling : <ul style="list-style-type: none"> • Salal • Bhakra Nangal • Tehri • Rana Pratap Sagar • Sardar Sarovar • Hirakud • Nagarjuna Sagar • Tungabhadra
	Agriculture	Identify : <ul style="list-style-type: none"> • Major areas of Rice and Wheat • Largest/Major producer States of Sugarcane, Tea, Coffee, Rubber, Cotton, Jute
	Minerals and Energy Resources	Identify : <ul style="list-style-type: none"> a. Iron Ore mines • Mayurbhanj • Durg

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	<ul style="list-style-type: none"> • Bailadila • Bellary • Kudremukh b. Coal Mines <ul style="list-style-type: none"> • Raniganj • Bokaro • Talcher • Neyveli c. Oil Fields <ul style="list-style-type: none"> • Digboi • Naharkatia • Mumbai High • Bassien • Kalol • Ankaleshwar
Locate & label : Power Plants <ul style="list-style-type: none"> a. Thermal <ul style="list-style-type: none"> • Namrup • Singrauli • Ramagundam b. Nuclear <ul style="list-style-type: none"> • Narora • Kakrapara • Tarapur • Kalpakkam * MANUFACTURING INDUSTRIES : <ol style="list-style-type: none"> 1. Manufacturing Industries (Locating and Labelling Only) : <ul style="list-style-type: none"> • Cotton Textile Industries : a. Mumbai b. Indore c. Surat d. Kanpur e. Coimbatore 	

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- Iron and Steel Plants : a. Durgapur b. Bokaro c. Jamshedpur d. Bhilai e. Vijayanagar f. Salem
- Software Technology Parks : a. Noida b. Gandhinagar c. Mumbai d. Pune e. Hyderabad, f. Bengaluru g. Chennai h. Thiruvananthapuram.

*** LIFELINES OF NATIONAL ECONOMY :**

Locating & Labelling :

a. Major sea ports

- Kandla
- Mumbai
- Marmagao
- New Mangalore
- Kochi
- Tuticorin
- Chennai
- Vishakhapatnam
- Paradip
- Haldia

b. International Airports :

- Amritsar (Raja Sansi - Sri Guru Ram Dass jee)
- Delhi (Indira Gandhi)
- Mumbai (Chhatrapati Shivaji)
- Chennai (Meenam Bakkam)
- Kolkata (Netaji Subhash Chandra Bose)
- Hyderabad (Rajiv Gandhi)

Note : Items of Locating and Labelling may also be given for Identification.

INTERNAL ASSESSMENT-20 MARKS			
Type of Assessment	Description	Marks Allocated	
1.Periodic Ass.	Pen-Paper test	5	
2.Multiple Ass.	Quiz, Debate, Role Play, Viva, Group discussion, Visual expression, interactive bulletin board, Gallery Walks, exit cards, concept maps, peer assessment, self assessment etc. through inter-disciplinary project	5	
3.Subject Enrichment Activity	Project work on consumer Rights or Social Issues, Or Sustainable development	5	
4.Portfolio	Class work done (Activities/ assignment), reflection, narration, journals etc. Achievement of student in subject throughout the year and participation in different activities.	5	
WEIGHTAGE TO TYPE OF QUESTIONS :			
	Type of Questions	Marks (80)	Percentage
1.	1 Mark MCQs (20×1) (Inclusive of assertion, reason, differentiation and stem)	20	25%

2.	2 Marks Narrative Questions (4×2) (Knowledge, Understanding, Application, Analysis, Evaluation, Synthesis and create)	8	10%
3.	3 Marks Narrative Questions (5×3) (Knowledge, Understanding, Application, Analysis, Evaluation, Synthesis and create)	15	18.75%
4.	4 marks case study questions (3×4) (Knowledge, Understanding, Application, Analysis, Evaluation, Synthesis and Create)	12	15%
5.	5 marks Narrative Questions (4×5) Knowledge, Understanding, Application, Analysis, Evaluation, Synthesis and Create)	20	25%
Map Pointing		5	6.25%

PHYSICAL EDUCATION

Term-I

1. Athletics :

- (a) Track Events : Short distance races and middle distance races (any one)
- (b) Field Events : Shot Put, Long Jump, Javlin Throw, Discus Throw, High Jump (any one)

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2. Games :

- (a) Major Games : Football, Handball, Volleyball, Chess, Badminton, Kho-Kho (any one)
- (b) Combative Games : Judo, Wrestling, Taekwando, Yoga, Karate, Tug of War (any one)

Term-II

3. General Exercises and Specific Exercises
4. Yog and Meditation
5. Mass P.T. Exercise
6. General discussion regarding discipline moral education, Health and Hygiene
7. Safety in the Play Ground
8. Project Work :
 - Games and Sports
 - Yog
 - Balance Diet
 - Traffic Rules

DANCE

- | | |
|-----------|--|
| April | Tatkar in Teen taal (One and half feet) |
| May | Learn Kathak Dance Movements alongwith Dance on semi classical |
| July | Nritya and Natya (Natak) in Kathak Dance |
| August | Guru Vandana |
| September | Jugalbandi (जुगलबंदी) in Kathak Dance |
| October | Punjabi Folk dance (Basics) |
| November | Krishan Kavit |
| December | Salsa Dance (Basic) |
| January | Giddha and Bhangra |
| February | Practice of all syllabus |

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DRAWING

April	Still Life
	Nature Study
May	Bird Study
	Animal Study
July	Landscapes
August	Body Proportions
	Sketching
September	Portraits
October	Composition
	Life Study
November	City Scapes
	Poster Design
December	Calligraphy
January	Mix Media Art
February	Tattoo Making

CRAFT

April	Creation of Personal Diary Cover
May	Creative Wall Hanging
July	Mandala Art
August	Decoupage Art / Bottle Design
September	Terracotta Art
October	Fabric Painting with basic strokes
November	Stone Art Painting
December	Table Mats with Coasters
January	Jute Art

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WORK EDUCATION

Term-I

1. Poster on any current problem.
2. Cooking without fire / Basic cooking activities.
3. Participation in school cleanliness program.

Term-II

4. Preparation of a Budget and helping their elders in Household activities.
5. Funk with Junk (To make any useful item with waste material.)
6. A field trip like an old age home, a bank or a historical site.

MUSIC

April	10 Sargams, All Prayers in Sanskrit भोजन मंत्र
May	Song on Labour Day, Mothers Day, Shani Bhajan
July	Prayer Songs in Hindi, English
August	Patriotic Song Krishna Bhajan Rakhi Song Bhajan on Ganpati Mahotsav
September	Exams
October	Ram Bhajan माता की भेंट Devotional Song
November	Shabad Teen Taal

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December	Rupak Taal, Dadra Taal
January	Lohri Song Punjabi Folk Song
February	Basant Song Shiv Bhajan Bollywood Songs Practice of all songs.

INFORMATION TECHNOLOGY (402)

Part-A (Employability Skills)

Unit 1	Communication Skill-II
Unit 2	Self-Management Skills-II
Unit 3	ICT Skills-II
Unit 4	Entrepreneurial Skills-II
Unit 5	Green Skills-II

Part-B (Subject Specific Skills)

Unit 1	Digital Documentation (Advanced)
Unit 2	Electronic Spreadsheet (Advanced)
Unit 3	Database Management System
Unit 4	Web Applications and Security