

**Syllabus (Class XII) 2022-23**

**SUBJECT: ENGLISH CORE**

<b>Half Yearly Exam (April to September)</b>	<b>Pre-Board Exam (April to November/December)</b>
<p><b>Section-A</b> <b><u>READING SKILLS-CLASS PRACTICE (20 marks)</u></b> • Two unseen passages</p> <p><b>Section-B</b> <b><u>CREATIVE WRITING SKILLS (20 marks)</u></b> (a) Notices (b) Writing formal and informal invitations and replies (c) Application for a job (d) Article</p> <p><b>Section-C</b> <b><u>LITERATURE TEXTBOOKS (40 marks)</u></b></p> <p align="center"><b><u>TEXTBOOK – FLAMINGO</u></b></p> <p><b><u>Prose</u></b> L-1 The Last Lesson L-2 Lost Spring L-3 Deep Water L-4 The Rattrap L-5 Indigo L-6 Poets and Pancakes L-7 The Interview</p> <p><b><u>Poetry</u></b> P-1 My Mother at Sixty Six P-2 Keeping Quiet P-3 A Thing of Beauty P-4 Roadside Stand</p> <p align="center"><b><u>SUPPLEMENTARY READER-VISTAS</u></b></p> <p>1. The Third Level 2. The Tiger King 3. Journey to the End of the Earth 4. The Enemy</p>	<p><b>Section-A</b> <b><u>READING SKILLS (20 marks)</u></b> (a) Two unseen passages</p> <p><b>Section-B</b> <b><u>CREATIVE WRITING SKILLS (20 marks)</u></b> (a) Letters to the editor (giving suggestions or opinion on issues of public interest) (b) Long Compositions based on verbal Input may be descriptive or analytical in nature such as report writing (c) Report Writing</p> <p><b>Section-C</b> <b><u>LITERATURE TEXTBOOKS (40 marks)</u></b></p> <p align="center"><b><u>TEXTBOOK – FLAMINGO</u></b></p> <p><b><u>Prose</u></b> L-8 Going Places</p> <p><b><u>Poetry</u></b> P-5 Aunt Jennifer’s Tigers</p> <p align="center"><b><u>SUPPLEMENTARY READER-VISTAS</u></b></p> <p>5. On the Face of It 6. Memories of Childhood (d) The Cutting of My Long Hair (e) We too are Human Beings</p> <p><b><u>Note -</u></b> Full syllabus taught <b>from</b> March / April <b>to</b> November / December will be included in Pre-Board Exam.</p>

**INTERNAL ASSESSMENT**

Assessment of listening and speaking skills in July-September (10 marks)  
 Project (File 5 marks, Viva 5 marks)  
 May-June – Read novel of your choice  
 September-October – Write book review (project file) as per guidelines posted in Google classroom.  
 November – Submit project for feedback.  
 December – Final submission for assessment and Viva  
 January/February – Board Internal Assessment of project

**English Examination Specifications**

Section A Reading Skills

Reading Comprehension through Unseen Passage

20 Marks

- I.** One unseen passage to assess comprehension, interpretation and inference. Vocabulary and inference of meaning will also be assessed. The passage may be factual, descriptive or literary. (10x1=10 Marks)
- II.** One unseen case-based passage with verbal/visual inputs like statistical data, charts etc. (10x1=10 Marks)  
 Multiple Choice Questions / Objective Type Questions will be asked.

**III. Creative Writing Skills**

The section has Short and Long writing tasks.

- i. Notice up to 50 words..(5 Marks: Format :1 / Organisation of Ideas: 1/Content : 2 / Accuracy of Spelling and Grammar : 1 ).
- ii. Formal/Informal Invitation and Reply up to 50 words.(5 Marks: Format : 1 / Organisation of Ideas: 1/Content : 2 / Accuracy of Spelling and Grammar :1 ).
- iii. Letters based on verbal/visual input, to be answered in approximately 120-150 words. Letter types include application for a job with bio data or resume. Letters to the editor (giving suggestions or opinion on issues of public interest) . (5 Marks: Format : 1 / Organisation of Ideas: 1/Content : 2 / Accuracy of Spelling and Grammar :1 ).
- iv. Article/ Report Writing, descriptive and analytical in nature, based on verbal inputs, to be answered in 120-150 words (5 Marks: Format : 1 / Organisation of Ideas: 1/Content : 2 / Accuracy of Spelling and Grammar :1 ).

## Section C

- iv. Reference to the Context 40 Marks
  - i. Poetry extract from the book Flamingo. (6x1=6 Marks)
  - ii. Prose extract from the book Vistas. (4x1=4 Marks)
  - iii. Prose extract from the book Flamingo. (6x1=6Marks)
- v. Short answer type question (from Prose and Poetry from the book Flamingo), to be answered in 40-50 words. (5x2=10 Marks)
- vi. Short answer type question, from Prose (Vistas), to be answered in 40- 50 words. (2x2=4 Marks)
- vii. Long answer type question, from Prose/Poetry (Flamingo), to be answered in 120-150 words. (1x5=5 Marks)
- viii. Long answer type question, based on the chapters from the book Vistas, to be answered in 120-150 words. (1x5=5 Marks)

**SUBJECT: PHYSICS**

Half Yearly Exam (April to September)	Pre-Board Exam (April to November/December)
Unit I : Electrostatics Unit II : Current Electricity Unit III : Magnetic effect of current & Magnetism Unit IV: Electromagnetic Induction and Alternating current Unit V : Electromagnetic Waves Unit VI : Optics  <b>List of Experiments</b> <b>Section -A</b> 1. To determine resistance per cm of a given wire by plotting a graph of potential difference versus current. 2. To find resistance of a given wire using metre bridge. 3. To convert the given galvanometer (of known resistance and figure of merit) into a voltmeter of desired range and to verify the same.  <b>List of Activities</b> 1. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source. 2. To assemble the components of a given electrical circuit. 3. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter.	Unit VII : Dual Nature of Matter Unit VIII : Atoms and Nuclei Unit IX : Electronic Devices  <b>List of Experiments</b> <b>Section -B</b> 1. To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias. 2. To determine refractive index of a glass slab using a travelling microscope. 3. To find the refractive index of water using a convex lens and plane mirror 4. To find the focal length of a concave mirror.  <b>List of Activities</b> 1. To identify a diode, an LED, a resistor and a capacitor from a mixed collection of such items. 2. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab. 3. To study the nature and size of the image formed by a (i) convex lens, or (ii) concave mirror, on a screen by using a candle and a screen  <b>Note -</b> Full syllabus taught from March / April to November / December will be included in Pre-Board Exam.

**COURSE STRUCTURE**

Time: 3 hrs.

Max Marks: 70

		Marks
<b>Unit-I</b>	<b>Electrostatics</b>	<b>16</b>
	Chapter-1: Electric Charges and Fields	
	Chapter-2: Electrostatic Potential and Capacitance	
<b>Unit-II</b>	<b>Current Electricity</b>	<b>17</b>
	Chapter-3: Current Electricity	
<b>Unit-III</b>	<b>Magnetic Effects of Current and Magnetism</b>	<b>18</b>
	Chapter-4: Moving Charges and Magnetism	
	Chapter-5: Magnetism and Matter	
<b>Unit-IV</b>	<b>Electromagnetic Induction and Alternating Currents</b>	<b>18</b>
	Chapter-6: Electromagnetic Induction	
	Chapter-7: Alternating Current	
<b>Unit-V</b>	<b>Electromagnetic Waves</b>	<b>18</b>
	Chapter-8: Electromagnetic Waves	
<b>Unit-VI</b>	<b>Optics</b>	<b>18</b>
	Chapter-9: Ray Optics and Optical Instruments	
	Chapter-10: Wave Optics	
<b>Unit-VII</b>	<b>Dual Nature of Radiation and Matter</b>	<b>18</b>
	Chapter-11: Dual Nature of Radiation and Matter	

<b>Unit-VIII</b>	<b>Atoms and Nuclei</b>	<b>12</b>
	Chapter-12: Atoms	
	Chapter-13: Nuclei	
<b>Unit-IX</b>	<b>Electronic Devices</b>	<b>7</b>
	Chapter-14: Semiconductor Electronics:Materials, Devices and Simple Circuits	
<b>Total</b>		<b>70</b>

**PRACTICAL**

**Max. Marks: 30**

**Time Allowed: Three hours**

Two experiments one from each section	7+7 Marks
Practical record (experiment and activities)	5 Marks
Investigatory Project	3 Marks
Viva on experiments, activities and project one activity from any section	5 Marks
One activity from any section	3 Marks
<b>Total</b>	<b>30 Marks</b>

**SUBJECT: CHEMISTRY****Half Yearly Exam (April to September)****Theory**

Unit I: Solutions

Unit II: Electrochemistry

Unit III: Chemical Kinetics

Unit VI: Haloalkanes and Haloarenes

Unit VII: Alcohols, Phenols and Ethers

Unit VIII: Aldehydes, Ketones and Carboxylic Acids

Unit IX: Amines

**Practicals**

1. Volumetric analysis
2. Salt analysis
3. Content based experiments
4. Project Work
5. Class record and viva

**Pre-Board Exam (April to November/December)****Theory**

Unit IV : The d -and f -Block Elements

Unit V: Coordination Compounds

Unit X : Biomolecules

**Note -**Full syllabus taught **from** March / April **to** November / December will be included in Pre-Board Exam.**COURSE STRUCTURE****Time : 3 Hours****Total Marks 70**

S. No.	Title	Marks
1	Solutions	7
2	Electrochemistry	9
3	Chemical Kinetics	7
4	d -and f -Block Elements	7
5	Coordination Compounds	7
6	Haloalkanes and Haloarenes	6
7	Alcohols, Phenols and Ethers	6
8	Aldehydes, Ketones and Carboxylic Acids	8
9	Amines	6
10	Biomolecules	7
<b>Total</b>		<b>70</b>

**PRACTICAL****Time Allowed: Three hours****Max. Marks: 30**

Volumetric Analysis (Titration)	8 Marks
Quantitative Analysis (Salt Analysis)	8 Marks
Content Based Analyses	6 marks
Record & Viva	4 Marks
Project Work	4 Marks
<b>Total</b>	<b>30 Marks</b>

**SUBJECT: MATHEMATICS**

<b>Half Yearly Exam (April to September)</b>	<b>Pre-Board Exam (April to November/December)</b>
L-1 Relation and Functions L-2 Inverse Trigonometric Functions L-3 Matrices L-4 Determinants L-5 Continuity and Differentiability L-6 Application of Derivatives L-7 Integrals L-8 Application of Integrals L-12 Linear Programming	L-9 Differential Equations L-10 Vector Algebra L-11 Three Dimensional Geometry L-13 Probability  <b>Note -</b> Full syllabus taught <b>from</b> March / April <b>to</b> November / December will be included in Pre-Board Exam.

**One Paper****Max Marks: 80**

<b>No.</b>	<b>Units</b>	<b>Marks</b>
I.	Relations and Functions	08
II.	Algebra	10
III.	Calculus	35
IV.	Vectors and Three - Dimensional Geometry	14
V.	Linear Programming	05
VI.	Probability	08
	<b>Total</b>	80
	<b>Internal Assessment</b>	20

<b>INTERNAL ASSESSMENT</b>	<b>20 MARKS</b>
Periodic Tests ( Best 2 out of 3 tests conducted)	10 MARKS
Mathematics Activities	10 MARKS

**SUBJECT: APPLIED MATHEMATICS**

<b>Half Yearly Exam (April to September)</b>	<b>Pre-Board Exam (April to November/December)</b>
L 1 Numbers & Quantification and Numerical Applications L 2 Algebra L 3 Calculus L 4 Probability Distribution L 5 Inferential Statistics L 6 Index Numbers and Time Based Data  Project	L 7 Financial Mathematics L 8 Linear Programming  Practical: Use of spreadsheet Calculating average, interest (simple and compound), creating pictographs, drawing pie chart, bar graphs, calculating central tendency visualizing graphs (straight line, circles and parabola using real-time data)  <u><b>Note -</b></u> Full syllabus taught <b>from</b> March / April <b>to</b> November / December will be included in Pre-Board Exam.

**Books prescribed by NCERT.**

**Time: 3 Hours**

**Max Marks: 80**

<b>No.</b>	<b>Units</b>	<b>Marks</b>
I	Numbers, Quantification and Numerical Applications	11
II	Algebra	10
III	Calculus	15
IV	Probability Distributions	10
V	Inferential Statistics	05
VI	Index Numbers and Time-based data	06
VII	Financial Mathematics	15
VIII	Linear Programming	08
<b>Total</b>		<b>80</b>
<b>Internal Assessment</b>		<b>20</b>

**INTERNAL ASSESSMENT**

<b>Sl. No.</b>	<b>Area and Weightage</b>	<b>Assessment Area</b>	<b>Marks allocated</b>
1	Project work (10 marks)	Project work and record	5
		Year-end Presentation/ Viva of the Project	5
2	Practical work (10 marks)	Performance of practical and record	5
		Year-end test of any one practical	5
<b>Total</b>			<b>20</b>

**SUBJECT: BIOLOGY**

<b>Half Yearly Exam (April to September)</b>	<b>Pre-Board Exam (April to November/December)</b>
<p>Chapter 2- Sexual Reproduction in Flowering Plants                      Chapter 3- Human Reproduction                      Chapter 4- Reproductive health                      Chapter 5- Principles of Inheritance and Variation                      Chapter 6- Molecular basis of inheritance                      Chapter 7- Evolution</p> <p><b>Practicals:</b>  <b>A. List of Experiments</b>                      1. Prepare a temporary mount to observe pollen germination.                      2. Prepare a temporary mount of onion root tip to study mitosis.</p> <p><b>B. Study/observation of the following (Spotting)</b>                      1. Flowers adapted to pollination by different agencies (wind, insects, birds).                      2. Pollen germination on stigma through a permanent slide or scanning electron micrograph.                      3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).                      4. Meiosis in onion bud cell or grasshopper testis through permanent slides.                      5. T.S. of blastula through permanent slides (Mammalian).                      6. Mendelian inheritance using seeds of different colour/sizes of any plant.                      7. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.                      8. Controlled pollination - emasculation, tagging and bagging.                      9. Flash cards models showing examples of homologous and analogous organs.</p>	<p>Chapter 8- Human Health and diseases                      Chapter 10- Microbes in human welfare                      Chapter 11- Biotechnology: Principles and Processes                      Chapter 12- Biotechnology and its Applications                      Chapter 13- Organisms and Populations                      Chapter 14- Ecosystem                      Chapter 15- Biodiversity and conservation</p> <p><b>Practicals:</b>  <b>A. List of Experiments:</b>                      1. Study the plant population density by quadrat method.                      2. Study the plant population frequency by quadrat method.                      3. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.</p> <p><b>B. Study/observation of the following (Spotting)</b>                      1. Common disease causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides, models or virtual images or specimens. Comment on symptoms of diseases that they cause.                      2. Models specimen showing symbolic association in root modules of leguminous plants, Cuscuta on host, lichens.</p> <p><b>Project Work</b></p> <p><b>Note -</b>                      Full syllabus taught <b>from</b> March / April <b>to</b> November / December will be included in Pre-Board Exam.</p>

**THEORY**

**Time: 03**

**Hours Max. Marks: 70**

<b>Unit</b>	<b>Title</b>	<b>Marks</b>
<b>VI</b>	Reproduction	<b>16</b>
<b>VII</b>	Genetics and Evolution	<b>20</b>
<b>VIII</b>	Biology and Human Welfare	<b>12</b>
<b>IX</b>	Biotechnology and its Applications	<b>12</b>
<b>X</b>	Ecology and Environment	<b>10</b>
<b>Total</b>		<b>70</b>

**PRACTICALS**

**Time allowed: 3 Hours**

**Max. Marks: 30**

<b>Evaluation Scheme</b>		<b>Marks</b>
One Major Experiment		5
One Minor Experiment		4
Slide Preparation		5
Spotting		7
Practical Record + Viva Voce	(Credit to the students' work over the academic session may be given)	4
Investigatory Project and its Project Record + Viva Voce		5
<b>Total</b>		<b>30</b>



**SUBJECT: ACCOUNTANCY**

**Half Yearly Exam (April to September)**

**Pre-Board Exam (April to November/December)**

**Part – A**

Ch 2: Accounting for Partnership Firms-Fundamentals  
 Ch 3: Goodwill : Nature & Valuation  
 Ch 4: Change in Profit-Sharing Ratio among Existing Partners  
 Ch 5: Admission of a Partner  
 Ch 6: Retirement / Death of a Partner  
 Ch 7: Dissolution of a Partnership Firm

**Part – B**

Ch 4: Accounting Ratios

Project work

**Part – A**

Ch 8: Company Accounts – Accounting for Share Capital  
 Ch 9: Company Accounts – Issue of Debentures

**Part – B**

Ch 1: Financial Statements of a Company  
 Ch 2: Financial Statement Analysis  
 Ch 5: Cash Flow Statement

Project work

**Note -**

Full syllabus taught **from** March / April **to** November / December will be included in Pre-Board Exam.

**Theory: 80 Marks**

**Project: 20 Marks**

**3 Hours**

Units		Marks
<b>Part A</b>	<b>Accounting for Partnership Firms and Companies</b>	
	Unit 1. Accounting for Partnership Firms	36
	Unit 2. Accounting for Companies	24
		<b>60</b>
<b>Part B</b>	<b>Financial Statement Analysis</b>	
	Unit 3. Analysis of Financial Statements	12
	Unit 4. Cash Flow Statement	8
		<b>20</b>
<b>Part C</b>	<b>Project Work</b>	20
	Project work will include:	
	Project File	4 Marks
	Written Test	12 Marks (One Hour)
	Viva Voce	4 Marks

**SUBJECT: BUSINESS STUDIES**

Half Yearly Exam (April to September)	Pre-Board Exam (April to November/December)
<p><b>Part A : Principles and Functions of Management</b>                      Ch. 1 Nature and Significance of Management                      Ch. 2 Principles of Management                      Ch. 3 Business Environment                      Ch. 4 Planning                      Ch. 5 Organizing</p> <p><b>Part B: Business Finance and Marketing</b>                      Ch.11 Marketing Management                      Ch.12 Consumer Protection</p> <p>Project Work</p>	<p><b>Part A : Principles and Functions of Management</b>                      Ch. 6 Staffing                      Ch. 7 Directing                      Ch. 8 Controlling</p> <p><b>Part B: Business Finance and Marketing</b>                      Ch. 9 Financial Management                      Ch.10 Financial Markets</p> <p>Project work</p> <p><b>Note -</b>                      Full syllabus taught <b>from</b> March / April <b>to</b> November / December will be included in Pre-Board Exam.</p>

**Course Structure**

Theory: 80 Marks  
 Project: 20 Marks

3 Hours

Units		Marks
<b>Part A</b>	<b>Principles and Functions of Management</b>	
1.	Nature and Significance of Management	16
2	Principles of Management	
3	Business Environment	
4	Planning	
5	Organising	
6	Staffing	20
7	Directing	
8	Controlling	
	<b>Total</b>	<b>50</b>
<b>Part B</b>	<b>Business Finance and Marketing</b>	
9	Financial Management	15
10	Financial Markets	
11	Marketing Management	
12	Consumer Protection	
	<b>Total</b>	<b>30</b>
<b>Part C</b>	<b>Project Work (One)</b>	<b>20</b>

**Project Work**

Select any one topic from the following :

**I. Project One: Elements of Business Environment**

The students should select 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:

- The changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates, etc. Reasons for above changes.
- Milk being supplied in glass bottles, later in plastic bags and now in tetra-pack and through vending machines.
- Plastic furniture [doors and stools] gaining preference over wooden furniture.
- The origin of cardboard and the various stages of changes and growth.
- Brown paper bags packing to recycled paper bags to plastic bags and cloth bags.
- Re use of packaging [bottles, jars and tins] to attract customers for their products.
- The concept of pyramid packaging for milk.
- Cost being borne by the consumer/manufacturer.
- Packaging used as means of advertisements.

2. The reasons behind changes in the following:

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

The students may be asked to enquire about

- a) Reasons of 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
3. Changing role of the women in the past 25 years relating to joint families, nuclear families, women as a bread earner of the family, changes in the requirement trend of mixers, washing machines, micro wave 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 environment on the types of goods and services?

The students can take examples like:

- a) Washing machines, micro waves, 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 technological environment on the behaviour of employee.

## **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. Esprit 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.
14. Authority and Responsibility

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.

### III. Project Three: Stock Exchange

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 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 with 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,
  - Change of seasons.
  - Festivals.
  - 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.

### Project Four: Marketing

- |                         |                        |
|-------------------------|------------------------|
| 1. Adhesives            | 40. Lipstick           |
| 2. Air conditioners     | 41. Microwave oven     |
| 3. Baby diapers         | 42. Mixers             |
| 4. Bathing Soap         | 43. Mobile             |
| 5. Bathroom cleaner     | 44. Moisturizer        |
| 6. Bike                 | 45. Music player       |
| 7. Blanket              | 46. Nail polish        |
| 8. Body Spray           | 47. Newspaper          |
| 9. Bread                | 48. Noodles            |
| 10. Breakfast cereal    | 49. Pen                |
| 11. Butter              | 50. Pen drive          |
| 12. Camera              | 51. Pencil             |
| 13. Car                 | 52. Pickles            |
| 14. Cheese spreads      | 53. Razor              |
| 15. Chocolate           | 54. Ready Soups        |
| 16. Coffee              | 55. Refrigerator       |
| 17. Cosmetology product | 56. RO system          |
| 18. Crayons             | 57. Roasted snacks     |
| 19. Crockery            | 58. Salt               |
| 20. Cutlery             | 59. Sarees             |
| 21. Cycle               | 60. Sauces/ Ketchup    |
| 22. DTH                 | 61. Shampoo            |
| 23. Eraser              | 62. Shaving cream      |
| 24. e-wash              | 63. Shoe polish        |
| 25. Fairness cream      | 64. Shoes              |
| 26. Fans                | 65. Squashes           |
| 27. Fruit candy         | 66. Suitcase/ airbag   |
| 28. Furniture           | 67. Sunglasses         |
| 29. Hair Dye            | 68. Tea                |
| 30. Hair Oil            | 69. Tiffin Wallah      |
| 31. Infant dress        | 70. Toothpaste         |
| 32. Inverter            | 71. Wallet             |
| 33. Jams                | 72. Washing detergent  |
| 34. Jeans               | 73. Washing machine    |
| 35. Jewellery           | 74. Washing powder     |
| 36. Kurti               | 75. Water bottle       |
| 37. Ladies bag          | 76. Water storage tank |
| 38. Ladies footwear     | 77. Wipes              |
| 39. Learning Toys       |                        |

Now the students are required to make a project on the identified product/servicekeeping 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 Proposition.[U.S.P.]?
5. Does your product have any range give 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 tag line.
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 you will 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 there in.
2. Brand name and the product.
3. Range of the product.
4. Identification mark or logo.
5. Tagline.
6. Labeling and packaging.
7. Price of the product and basis of price fixation.
8. Selected channels of distribution and reasons thereof.
9. Decisions related to transportation and warehousing. State reasons.
10. Promotional techniques used and starting reasons for deciding the particular technique.
11. Grading and standardization.

#### 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 length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat folder.
4. The project report should be developed in the following sequence-
  - Cover page should include the title of the Project, student information, school and year.
  - List of contents.
  - Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).
  - Introduction.
  - Topic with suitable heading.
  - Planning and activities done during the project, if any.
  - Observations and findings of the visit.
  - Conclusions (summarized suggestions or findings, future scope of study).
  - Photographs (if any).
  - Appendix
  - Teacher's observation.
  - Signatures of the teachers.
  - At the completion of the evaluation of the project, it should be punched in the centre so that the report may not be reused but is available for reference only.
  - The project will be returned after evaluation. The school may keep the best projects.

#### ASSESSMENT

Allocation of Marks = 20 Marks

The marks will be allocated under the following heads:

1	Initiative, cooperativeness and participation	2 Mark
2	Creativity in presentation	2 Mark
3	Content, observation and research work	4 Marks
4	Analysis of situations	4 Marks
5	Viva	8 Marks
	<b>Total</b>	<b>20 Marks</b>

**SUBJECT: ECONOMICS****Half Yearly Exam (April to September)****Pre-Board Exam (April to November/December)**

**Part – A Introductory Macroeconomics**  
 Unit 1 National Income and Related Aggregates  
 Unit 4 Government Budget and the Economy  
 Unit 5 Foreign Exchange Rate, Balance of Payments

**Part – B Indian Economic Development**  
 Unit 6 Development Experience (1947-90) and Economic Reforms since 1991

Project Work

**Part – A Introductory Macroeconomics**  
 Unit 2 Money and Banking  
 Unit 3 Determination of Income and Employment

**Part – B Indian Economic Development**  
 Unit 7 Current Challenges facing Indian Economy  
 Unit 8 Development Experience of India – A Comparison with Neighbours

Project Work

**Note -**

Full syllabus taught **from** March / April **to** November / December will be included in Pre-Board Exam.

**COURSE STRUCTURE**

**Theory: 80 Marks**

**3 Hours**

**Project: 20 Marks**

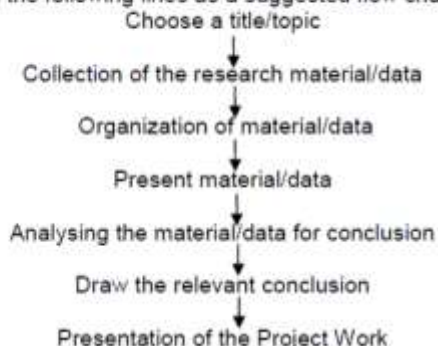
Units		Marks
<b>Part A</b>	<b>Introductory Macroeconomics</b>	
	National Income and Related Aggregates	10
	Money and Banking	06
	Determination of Income and Employment	12
	Government Budget and the Economy	06
	Balance of Payments	06
		<b>40</b>
<b>Part B</b>	<b>Indian Economic Development</b>	
	Development Experience (1947-90) and Economic Reforms since 1991	12
	Current Challenges facing Indian Economy	20
	Development Experience of India – A Comparison with Neighbours	08
	<b>Theory Paper (40+40 = 80 Marks)</b>	<b>40</b>
<b>Part C</b>	<b>Project Work</b>	<b>20</b>

**PRACTICAL**

- Term-I Project Work 20 marks (File 12 marks and Viva 8 marks)
- Term-II Project Work 20 marks (File 12 marks and Viva 8 marks)

**Guidelines of Project Work****Scope of the project:**

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





**Marking Scheme :**

Marks are suggested to be given as –

S. No.	Heading	Marks Allotted
1.	Relevance of the topic	3
2.	Knowledge Content/Research Work	6
3.	Presentation Technique	3
4.	Viva-voce	8
	Total	20 Marks

**Suggestive List of Projects:**

Class XII	
• 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
• Sarwa Siksha Abhiyan – 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	• <b>Any other topic</b>

**SUBJECT: ENTREPRENEURSHIP****Half Yearly Exam (April to September)****Pre-Board Exam (April to November/December)**

Unit-1: Entrepreneurial Opportunity  
 Unit-2 : Entrepreneurial Planning  
 Unit-3: Enterprise Marketing  
 Unit-4 : Enterprise Growth Strategies  
  
 Project Work

Unit-5 : Business Arithmetic  
 Unit-6 : Resource Mobilization  
  
 Project Work

**Note -**  
 Full syllabus taught **from** March / April **to** November / December will be included in Pre-Board Exam.

**Theory Paper**

Time: 3 hours

Maximum marks: 70

S. No.	Unit	Marks
Unit 1	Entrepreneurial Opportunity	30
Unit 2	Entrepreneurial Planning	
Unit 3	Enterprise Marketing	20
Unit 4	Enterprise Growth Strategies	
Unit 5	Business Arithmetic	20
Unit 6	Resource Mobilization	
<b>Total</b>		<b>70</b>
<b>Project Work</b>		30
<b>Total</b>		<b>100</b>

**PROJECT WORK**

Students have to do TWO projects in the entire academic session.

**TOPICS FOR THE PROJECT:**

1. Business Plan
2. Market Survey

- 10 Marks each for 02 Projects
- 5 Marks for Numerical Assessment
- 5 Marks for Viva

Note: Students need to complete both the projects. Guidelines for both projects are given in the CBSE Textbook.

**SUBJECT: PHYSICAL EDUCATION**

<b>Half Yearly Exam (April to September)</b>	<b>Pre-Board Exam (April to November/December)</b>
Unit I : Management of Sporting Events Unit II : Children & Women in Sports Unit III : Yoga and Lifestyle Unit IV : Physical Education and Sports for CWSN (Children with Special Needs-Divyang) Unit V : Sports & Nutrition  Practicals	Unit VI : Test and Measurement in Sports Unit VII : Physiology and Injuries in Sports Unit VIII : Biomechanics and Sports Unit IX : Psychology and Sports Unit X : Training in Sports  Practicals  <u><b>Note -</b></u> Full syllabus taught <b>from</b> March / April <b>to</b> November / December will be included in Pre-Board Exam.

Practical	Max. Marks 30
01. Physical Fitness Test: SAI Khelo India Test, Brockport Physical Fitness Test (BPFT)*	6 Marks
02. Proficiency in Games and Sports (Skill of any one IOA recognised Sport/Game of Choice)**	7 Marks
03. Yogic Practices	7 Marks
04. Record File ***	5 Marks
05. Viva Voce (Health/ Games & Sports/ Yoga)	5 Marks

\* Test for CWSN (any 4 items out of 27 items. One item from each component: Aerobic Function, Body Composition, Muscular strength & Endurance, Range of Motion or Flexibility)

\*\*CWSN (Children With Special Needs – Divyang): Bocce/Boccia , Sitting Volleyball, Wheel Chair Basketball, Unified Badminton, Unified Basketball, Unified Football, Blind Cricket, Goalball, Floorball, Wheel Chair Races and Throws, or any other Sport/Game of choice.

\*\*Children With Special Needs can also opt any one Sport/Game from the list as alternative to Yogic Practices. However, the Sport/Game must be different from Test - ‘Proficiency in Games and Sports’

\*\*Record File shall include:

- Practical-1: Fitness tests administration.
- Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.
- Practical-3: Any one IOA recognised Sport/Game of choice. Labelled diagram of Field & Equipment. Also mention its Rules, Terminologies & Skills.

**SUBJECT: INFORMATICS PRACTICES (Book by – Sumita Arora)**

<b>Half Yearly Exam (April to September)</b>	<b>Pre-Board Exam (April to November/December)</b>
<p><b>Unit 1: Data Handling using Pandas –I</b> Ch 1. Introduction to Python libraries: Pandas Ch 2. Pandas Library : Matplotlib - Data Visualization</p> <p><b>Unit 2: Database Query using SQL</b> Ch 3. SQL Functions Ch 4. Manipulating Data Using group by / order by</p> <p><b>Practical</b> Programming in Python SQL queries</p>	<p><b>Unit 3: Introduction to Computer Networks</b> Ch 5. Introduction to Networks Ch 6. Network Devices &amp; Topologies Ch 7. Introduction to Website &amp; Web browsers</p> <p><b>Unit 4: Societal Impacts</b></p> <p><b>Project Work</b> The aim of the class project is to create tangible and useful IT application. The learner may identify a real-world problem by exploring the environment. e.g. Students can visit shops/business places, communities or other organizations in their localities and enquire about functioning of the organization, and how data are generated, stored, and managed.</p> <p><b>Note -</b> Full syllabus taught <b>from</b> March / April <b>to</b> November / December will be included in Pre-Board Exam.</p>

**COURSE STRUCTURE**

<b>Unit No</b>	<b>Unit Name</b>	<b>Marks</b>
1	Data Handling using Pandas and Data Visualization	25
2	Database Query using SQL	25
3	Introduction to Computer Networks	10
4	Societal Impacts	10
	Project	-
	Practical	30
	Total	100

**Practical**

<b>S. No.</b>	<b>Unit Name</b>	<b>Marks</b>
1	Programs using Pandas and Matplotlib	8
2	SQL Queries	7
3	Practical file (minimum of 15 programs based on Pandas, 4 based on Matplotlib and 15 SQL queries must be included)	5
4	Project Work (using concepts learned in class XI and XII)	5
5	Viva-Voce	5
	TOTAL	30

**SUBJECT: PSYCHOLOGY****Half Yearly Exam (April to September)****Pre-Board Exam (April to November/December)****Theory**

Unit I : Variations in Psychological Attributes

Unit II : Self and Personality

Unit III : Meeting Life Challenges

Unit IV : Psychological Disorders

**Practical Examination**

1. Development of case profile
2. Test administration:  
Students are required to administer and interpret five tests.
3. Viva Voce (Project )
4. In Practical examination, the student will be required to administer and interpret two psychological tests.
  - Intelligence
  - Personality
  - Stress
  - Self-concept

**Theory**

Unit V : Therapeutic Approaches

Unit VI : Attitude and Social Cognition

Unit VII : Social Influence and Group Processes

**Practical Examination**

1. Attitude

**Note -**

Full syllabus taught **from** March / April **to** November / December will be included in Pre-Board Exam.

**COURSE STRUCTURE****Theory Paper****3 hours  
Marks: 70**

<b>Units</b>	<b>Topics</b>	<b>Marks</b>
I	Variations in Psychological Attributes	13
II	Self and Personality	13
III	Meeting Life Challenges	9
IV	Psychological Disorders	12
V	Therapeutic Approaches	9
VI	Attitude and Social Cognition	8
VII	Social Influence and Group Processes	6
	<b>Total</b>	<b>70</b>

**Practical Examination :**

• Practical File and Case Profile	10 Marks
• Viva Voce (Case Profile & Two Practicals)	05 Marks
• Two Practicals (5 marks for conduct of practicals and 10 marks for reporting)	15 Marks
<b>Total</b>	<b>30 Marks</b>

**SUBJECT: LEGAL STUDIES****Half Yearly Exam (April to September)****Pre-Board Exam (April to November/December)**

Unit 1. Judiciary  
 Unit 2. Topics of Law :  
 (a) Law of Property  
 (b) Law of Contracts  
 (c) Law of Torts  
 (d) Introduction to Criminal Laws in India  
 Unit 3. Arbitration, Tribunal Adjudication & Alternative Dispute Resolution  
 Unit 4. Human Rights in India

Unit 5. Legal Profession in India  
 Unit 6. Legal Services  
 Unit 7. International Context

**Note -**

Full syllabus taught from March / April to November / December will be included in Pre-Board Exam.

**Books prescribed by CBSE****COURSE STRUCTURE****Time: 3 hrs.****Marks: 80**

S. No.	Units	Marks
1	Judiciary	10
2	Topics of Law	20
3	Arbitration, Tribunal Adjudication and Alternative Dispute Resolution	10
4	Human Rights in India	10
5	Legal Profession in India	10
6	Legal Services	10
7	International Context	10
8	Project (Based on Syllabus)	20
	<b>Total</b>	<b>100</b>

**PROJECT GUIDELINES****INTRODUCTION**

The student is required to do a project on 'Understanding Case Laws'

**METHODOLOGY-**

- The student is required to select any 3 decided cases related to the curriculum where one must be civil in nature, one criminal and one constitutional in character.
- The research on the cases must include the following points:
  - Name of the case
  - Parties to the case
  - Citation
  - Bench
  - Nature of the case (Civil, Criminal or Constitutional)
  - Facts of the case and issues involved
  - Arguments of the parties
  - Decision of the case

**INTERNAL ASSESSMENT**

A Project based internal assessment of twenty marks will be done as indicated above.

**SUBJECT: PAINTING****Half Yearly Exam (April to September)****Pre-Board Exam (April to November/December)****Theory****UNIT-I****(A) A brief introduction to Indian Miniature School (Pala, Central and Western)****(B) The Rajasthan School of Miniature Painting**

- 1) Origin and Development
- 2) Sub-Schools-Mewar, Bundi, Jodhpur, Bikaner, Kishangarh and Jaipur
- 3) Main features of the Rajasthan School
- 4) Study of the following Rajasthan Paintings:

Title	Painter	Sub-School
Maru-Ragini	Sahibdin	Mewar
Chaugan Players	Dana	Jodhpur
Krishna on Swing	Nuruddin	Bikaner
Radha (Bani-Thani)	Nihal Chand	Kishangarh
Bharat Meets Rama at Chitrakut	Guman	Jaipur

**(C) The Pahari School**

- 1) Origin and development
- 2) Sub-Schools-Basohli, Guler, Kangra, Chamba and Garhwal
- 3) Main features of the Pahari School
- 4) Study of the following Pahari Paintings:

Title	Painter	Sub-School
Krishna with Gopis	Manaku	Basohli
Nand, Yashoda and Krishna with Kinsmen going to Vrindavan	Nainsukh	Kangra

**UNIT-II****(A) The Mughal School of Miniature Painting**

- 1) Origin and development
- 2) Main features of the Mughal School
- 3) Study of the following Mughal Paintings:

Title	Painter	Period
Krishna Lifting Mount Goverdhana	Miskin	Akbar
Falcon on a Bird-Rest	Ustad Mansoor	Jahangir
Kabir and Raidas	Ustad Faquirullah Khan	Shahjahan
Marriage procession of Dara Shikoh	Haji Madni	Provincial Mughal (Avadh)

**(B) The Deccan School of Miniature Painting**

- 1) Origin and development
- 2) Main features of the Deccan School
- 3) Study of the following Deccan Paintings:

Title	Painter	Sub-School
Hazrat Nizamuddin Auliya and Amir Khusro	Unknown	Hyderabad
Chand Bibi Playing Polo (Chaugan)	Unknown	Gol Konda

**UNIT-III****(A) The Bengal School of Painting**

National Flag of India and the Symbolic significance of its forms and the colours.

- 1) Introduction to the Bengal School of Painting
  - (i) Origin and development of the Bengal School of painting
  - (ii) Main features of the Bengal School of painting
- 2) Contribution of Indian artists in the struggle for National Freedom Movement

**Theory****(A) The Modern Trends in Indian Art**

- (1) Introduction of Contemporary art
- (2) Study and appreciation of the following work of Contemporary (Modern) Indian art

**(a) Paintings:**

Title	Painter
Rama Vanquishing the Pride of the Ocean	Raja Ravi Varma
Mother and Child	Jamini Roy
Haldi Grinders	Amrita Sher Gil
Mother Teresa	M.F. Husain

**(b) Graphic - prints:**

Title	Painter
Children	Somnath Hore
Devi	Jyoti Bhatt
Of Walls	AnupamSud
Man, Woman and Tree	K. Laxma Goud

**(c) Sculptures:**

Title	Painter
Triumph of Labour	D. P. Roy Chowdhury
Santhal Family	Ramkinkar Vaij
Cries Un - heard	Amar Nath Sehgal
Ganesha	P. V. Jankiram

**Practical Work****(i) Nature and Object Study**

Studies on the basis of exercises done in class XI with two or three objects and drapery for background. Exercises in pencil with light and shade and in full colour from a fixed point of view.

**(ii) Painting Composition**

Imaginative painting based on subjects from Life and Nature in water and poster colours with colour values.

**(iii) Indian Folk Art****Note -**

Full syllabus taught from March / April to November / December will be included in Pre-Board Exam.

3) Study and appreciation of the following paintings of the Bengal school:

Title	Painter
Journey's End	Abanindranath Tagore
Shiv and Sati	Nand Lal Bose
Radhika	M.A.R. Chughtai
Meghdoot	Ram Gopal Vijaivargiya

### **Practical Work**

#### **(i) Nature and Object Study**

Studies on the basis of exercises done in class XI with two or three objects and drapery for background. Exercises in pencil with light and shade and in full colour from a fixed point of view.

#### **(ii) Painting Composition**

Imaginative painting based on subjects from Life and Nature in water and poster colours with colour values.

## **THEORY**

### **One Theory Paper**

**Unitwise Weightage**

**30 Marks**

**Time: 2 Hours**

Units		Marks
1	The Rajasthani and Pahari Schools of Miniature Painting	10
2	The Mughal and Deccan Schools of Miniature Painting	10
3	The Indian National Flag and the Bengal School of Painting and The Modern Trends in Indian Art	10
	Total	<b>30</b>

## **PRACTICAL**

### **One Practical Paper**

**Unit wise Weightage**

**70 Marks**

**Time: 6 Hours (3+3)**

Units		Marks
1	Nature, and Object Study	25
2	Painting Composition	25
3	Portfolio Assessment	20
	Total	<b>70</b>



**SUBJECT: COMMERCIAL ART****Half Yearly Exam (April to September)****Pre-Board Exam (April to November/December)****Theory****UNIT-I****(A) A brief introduction to Indian Miniature School (Pala, Central and Western)****(B) The Rajasthan School of Miniature Painting**

- 1) Origin and Development
- 2) Sub-Schools-Mewar, Bundi, Jodhpur, Bikaner, Kishangarh and Jaipur
- 3) Main features of the Rajasthan School
- 4) Study of the following Rajasthan Paintings:

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Radha (Bani-Thani)	Nihal Chand	Kishangarh
Bharat Meets Rama at Chitrakut	Guman	Jaipur

**(A) The Pahari School**

- 1) Origin and development
- 2) Sub-Schools-Basohli, Guler, Kangra, Chamba and Garhwal
- 3) Main features of the Pahari School
- 4) Study of the following Pahari Paintings:

Title	Painter	Period
Krishna with Gopis	Manaku	Basohli
Nand, Yashoda and Krishna with Kinsmen going to Vrindavana	Nainsukh	Kangra

**UNIT-II****(A) The Mughal School of Miniature Painting**

- 1) Origin and development
- 2) Main features of the Mughal School
- 3) Study of the following Mughal Paintings:

Title	Painter	Sub-School
Krishna Lifting Mount Goverdhana	Miskin	Akbar
Falcon on a Bird-Rest	Ustad Mansoor	Jahangir
Kabir and Raidas	Ustad Faqirullah Khan	Shahjahan
Marriage procession of Dara Shikoh	Haji Madni	Provincial Mughal (Avadh)

**(B) The Deccan School of Miniature Painting**

- 1) Origin and development
- 2) Main features of the Deccan School
- 3) Study of the following Deccan Paintings:

Title	Painter	Sub-School
Hazrat Nizamuddin Auliya and Amir Khusro	Unknown	Hyderabad
Chand Bibi Playing Polo (Chaugan)	Unknown	Gol Konda

**UNIT-III****(A) The Bengal School of Painting**

National Flag of India and the Symbolic significance of its forms and the colours.

- 1) Introduction to the Bengal School of Painting
  - (i) Origin and development of the Bengal School of painting
  - (ii) Main features of the Bengal School of painting
- 2) Contribution of Indian artists in the struggle for National Freedom Movement
- 3) Study and appreciation of the following paintings of the Bengal school:

**Theory****(A) The Modern Trends in Indian Art**

- (1) Introduction of Contemporary art
- (2) Study and appreciation of the following work of Contemporary (Modern) Indian art

**(a) Paintings:**

Title	Painter
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Mother Teresa	M.F. Husain

**(b) Graphic - prints:**

Title	Painter
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Man, Woman and Tree	K. Laxma Goud

**(c) Sculptures:**

Title	Painter
Triumph of Labour	D. P. Roy Chowdhury
Santhal Family	Ramkinkar Vaij
Cries Un - heard	Amar Nath Sehgal
Ganesha	P. V. Jankiram

**Practical Work****(i) Illustration**

Study of techniques of illustration on given subjects and simple situations supported by drawing from life and outdoor sketching in different media suitable for printing.

**(ii) Poster**

Making a poster with specified data and slogan on a given subject in two or three colours.

**(iii) Indian Folk Art****Note -**

Full syllabus taught from March / April to November / December will be included in Pre-Board Exam.

Title	Painter
Journey's End	Abanindranath Tagore
Shiv and Sati	Nand Lal Bose
Radhika	M.A.R. Chughtai
Meghdoot	Ram Gopal Vijaivargiya

### **Practical Work**

#### **(i) Illustration**

Study of techniques of illustration on given subjects and simple situations supported by drawing from life and outdoor sketching in different media suitable for printing.

#### **(ii) Poster**

Making a poster with specified data and slogan on a given subject in two or three colours.

## **THEORY**

### **One Theory Paper**

**30 Marks**

#### **Unit wise Weightage**

**Time: 2 Hours**

Units		Marks
1	The Rajasthani and Pahari Schools of Miniature Painting	10
2	The Mughal and Deccan Schools of Miniature Painting	10
3	The Indian National Flag and the Bengal School of Painting and The Modern Trends in Indian Art	10
	Total	<b>30</b>

## **PRACTICAL**

### **One Practical Paper**

**70 Marks**

#### **Unit wise Weightage**

**Time: 6 Hours (3+3)**

Units		Marks
1	Illustration	25
2	Poster	25
3	Portfolio Assessment	20
	Total	<b>70</b>

**SUBJECT: HISTORY****Half Yearly Exam (April to September)****Pre-Board Exam (April to November/December)**

Ch.1. Bricks, Beads and Bones  
 Ch.2. Kings, Farmers and Towns  
 Ch.3. Kinship, Caste and Class  
 Ch.4. Thinkers, Beliefs and Buildings  
 Ch.5. Through the Eyes of Travellers  
 Ch.6. Bhakti – Sufi Traditions  
 Ch.7. An Imperial Capital :Vijaynagar  
 Ch.8. Peasants, Zamindars -And-The-State

Map Work

Ch.10. Colonialism and the Countryside  
 Ch.11. Rebels and the Raj  
 Ch.13. Mahatma Gandhi and the Nationalist Movement  
 Ch.15. Framing the Constitution

Map Work

**Note -**

Full syllabus taught from March / April to November / December will be included in Pre-Board Exam.

**COURSE STRUCTURE**

**One-Theory**

**Paper 80Marks**  
3 Hours

<b>THEMES</b>	<b>Marks</b>
<b>Themes in Indian History Part-I</b>	<b>25</b>
Theme 1 Bricks, Beads and Bones	
Theme 2 Kings, Farmers and Towns	
Theme 3 Kinship, Caste and Class	
Theme 4 Thinkers, Beliefs and Buildings	<b>25</b>
<b>Themes In Indian History Part-II</b>	
Theme 5 Through the Eyes of Travellers	
Theme 6 Bhakti –Sufi Traditions	
Theme 7 An Imperial Capital: Vijayanagar	<b>25</b>
Theme 8 – Peasants, Zamindars and the State	
<b>Themes In Indian History Part-III</b>	
Theme 10 Colonialism and The Countryside	
Theme 11 Rebels and the Raj	<b>25</b>
Theme 13 Mahatma Gandhi and the Nationalist Movement	
Theme 15 Framing the Constitution	
Including Map Work of The Related Themes	
<b>Total</b>	<b>80</b>
<b>Project work</b>	<b>20</b>
<b>Total</b>	<b>100</b>

**FEW SUGGESTIVE TOPICS FOR PROJECTS**

1. The Indus Valley Civilization-Archeological Excavations and New Perspectives
2. The History and Legacy of Mauryan Empire
3. “Mahabharat”- The Great Epic of India
4. The History and Culture of the Vedic period
5. Buddha Charita
6. A Comprehensive History of Jainism
7. Bhakti Movement- Multiple interpretations and commentaries.
8. “The Mystical Dimensions of Sufism
9. Global legacy of Gandhian ideas
10. The Architectural Culture of the Vijayanagar Empire
11. Life of women in the Mughal rural society
12. Comparative Analysis of the Land Revenue Systems introduced by the Britishers in India
13. The Revolt of 1857- Causes; Planning & Coordination; Leadership, Vision of Unity
14. The Philosophy of Guru Nanak Dev
15. The Vision of Kabir
16. An insight into the Indian Constitution

**PROJECT WORK: 20 Marks**

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

Month	Periodic Work	Assessment Rubrics	Marks
April -July	Instructions about Project Guidelines, Background reading Discussions on Theme and Selection of the Final Topic, Initiation/ Synopsis	Introduction, Statement of Purpose/Need and objectives of the study, Hypothesis/Research Question, Review of Literature, Presentation of Evidence, Methodology, Questionnaire, Data Collection.	6
August - October	Planning and organization: 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
November - January	Content/data analysis and interpretation. Conclusion, Limitations, Suggestions, Bibliography, Annexures and overall presentation of the project.	Content analysis and its relevance in the current scenario. Conclusion, Limitations, Bibliography, Annexures and Overall Presentation.	5
January/ February	<b>Final Assessment and VIVA by both Internal and External Examiners</b>	External/ Internal Viva based on the project	4
		<b>TOTAL</b>	<b>20</b>

**Books prescribed by NCERT.**

### List of Maps

Book 1		
1.	<b>Page 2</b>	Mature Harappan sites: • Harappa, Banawali, Kalibangan, Balakot, Rakhigarhi, Dholavira, Nageshwar, Lothal, Mohenjodaro, Chanhudaro, KotDiji.
2.	<b>Page 30</b>	Mahajanapada and cities : • Vajji, Magadha, Kosala, Kuru, Panchala, Gandhara, Avanti, Rajgir, Ujjain, Taxila, Varanasi.
3.	<b>Page 33</b>	Distribution of Ashokan inscriptions: • Kushanas, Shakas, Satavahanas, Vakatakas, Guptas • Cities/towns: Mathura, Kannauj, Braghukachchha • Pillar inscriptions -Sanchi, Topra, Meerut Pillar and Kaushambi. • Kingdom of Cholas, Cheras and Pandyas.
4.	<b>Page 43</b>	Important kingdoms and towns: • Kushanas, Shakas, Satavahanas, Vakatakas, Guptas • Cities/towns: Mathura, Kanauj, Puhar, Rajgir, Vaishali, Varanasi, Vidisha
5.	<b>Page 95</b>	Major Buddhist Sites: Nagarjunakonda, Sanchi, Amaravati, Lumbini, Nasik, Bharhut, BodhGaya, Ajanta.
Book 2		
1.	<b>Page 174</b>	Bidar, Golconda, Bijapur, Vijayanagar, Chandragiri, Kanchipuram, Mysore, Thanjavur, Kolar
2.	<b>Page 214</b>	Territories under Babur, Akbar and Aurangzeb: • Delhi, Agra, Panipat, Amber, Ajmer, Lahore, Goa.
Book 3		
1.	<b>Page 297</b>	Territories/cities under British Control in 1857: • Punjab, Sindh, Bombay, Madras Fort St. David, Masulipatam, Berar, Bengal, Bihar, Orissa, Avadh, Surat, Calcutta, Daccan, Chitagong, Patna, Benaras, Allahabad and Lucknow.
2.	<b>Page 305</b>	Main centres of the Revolt of 1857: • Delhi, Meerut, Jhansi, Lucknow, Kanpur, Azamgarh, Calcutta, Benaras, Gwalior, Jabalpur, Agra, Avadh.
3.		Important centres of the National Movement: • Champaran, Kheda, Ahmedabad, Benaras, Amritsar, ChauriChaura, Lahore, Bardoli, Dandi, Bombay (Quit India Resolution), Karachi.

**SUBJECT: POLITICAL SCIENCE**

Half Yearly Exam (April to September)	Pre-Board Exam (April to November/December)
<p><b>Part A: Contemporary World Politics</b></p> <ol style="list-style-type: none"> <li>The End of bipolarity</li> <li>New centres of power</li> <li>Contemporary South Asia</li> <li>United Nations and its Organizations</li> </ol> <p><b>Part B: Politics in India since Independence</b></p> <ol style="list-style-type: none"> <li>Challenges of Nation Building</li> <li>Planned Development</li> <li>India's Foreign Policy</li> <li>Parties and Party System in India</li> </ol> <p><b>Practical – File (10 marks) and Viva (10 marks)</b></p>	<p><b>Part A: Contemporary World Politics</b></p> <ol style="list-style-type: none"> <li>Security in Contemporary World</li> <li>Environment and Natural Resources</li> <li>Globalization</li> </ol> <p><b>Part B: Politics in India since Independence</b></p> <ol style="list-style-type: none"> <li>Democratic Resurgence</li> <li>Regional aspirations</li> <li>Indian Politics : Trends and Development</li> </ol> <p><b>Practical – File (10 marks) and Viva (10 marks)</b></p> <p><b>Note -</b> Full syllabus taught <b>from</b> March / April <b>to</b> November / December will be included in Pre-Board Exam.</p>
<b>Books prescribed by NCERT.</b>	

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		<b>TOTAL</b>	<b>20</b>

**1. Suggestive Topics:**

Students can choose any topic related to the syllabus.

- Assessment will be done by external examiner in coordination with internal examiner and the date of Project Assessment will be fixed by CBSE in the month of February/March 2023.

**7. 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.