

Syllabus (Class XI) 2022-23

SUBJECT: ENGLISH CORE	
HALF YEARLY EXAM	FINAL EXAM
<p>Section – A <u>READING SKILLS (26 marks)</u></p> <ul style="list-style-type: none"> • Two unseen passages • Note making and summarization <p>Section - B <u>WRITING SKILLS & GRAMMAR (23 marks)</u></p> <p>(i) Advertisement (ii) Speech (iii) Tenses, Clauses (integrated grammar practice exercise)</p> <p>Section - C <u>LITERATURE TEXTBOOKS (31 marks)</u> <u>HORNBILL</u></p> <ol style="list-style-type: none"> 1. The Portrait of a Lady (Prose) 2. A Photograph (Poem) 3. “We’re Not Afraid to Die... if we can be together 4. Discovering Tut: the Saga Continues 5. The Laburnum Top (Poem) 6. The Voice of the Rain (Poem) <p><u>SUPPLEMENTARY READER-SNAPSHOTS</u></p> <ol style="list-style-type: none"> 1. The Summer of the Beautiful White Horse (Prose) 2. The Address (Prose) 3. Mother’s Day (Play) 	<p>Section – A <u>READING SKILLS (26 marks)</u></p> <ul style="list-style-type: none"> • Two unseen passage • Note making and summarization <p>Section - B <u>WRITING SKILLS & GRAMMAR (23 marks)</u></p> <ul style="list-style-type: none"> • Poster • Debate • Tenses, Clauses <p>Section - C <u>LITERATURE TEXTBOOKS (31 marks)</u> <u>HORNBILL</u></p> <ol style="list-style-type: none"> 7. Childhood (Poem) 8. The Adventure 9. Silk Road (Prose) 10. Father to Son <p><u>SUPPLEMENTARY READER-SNAPSHOTS</u></p> <ol style="list-style-type: none"> 4. Birth (Prose) 5. The Tale of Melon City <p>Note :- Full course of Half Yearly Exam will be included in Final Exam.</p>
Books prescribed by NCERT.	

INTERNAL ASSESSMENT

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

English Examination Specifications

Section A Reading Skills

Reading Comprehension through Unseen Passage

18 Marks

- I.** One unseen passage to assess comprehension, interpretation inference and vocabulary. The passage may be factual, descriptive or literary.
- II.** One unseen **case-based** passage with verbal/visual inputs like statistical data, charts etc. Multiple Choice Questions / Objective Type Questions will be asked. **(10+8 = 18 Marks)**
- III.** Note Making and Summarization based on a passage of approximately 200-250 words.

i.	Note Making:	5 Marks
	○ Title:	1
	○ Numbering and indenting:	1
	○ Key/glossary:	1
	○ Notes:	2
ii.	Summary (up to 50 words):	3 Marks
	○ Content:	2
	○ Expression:	1

Section B

IV. Grammar

7 Marks

- i. Questions on Gap filling (Tenses, Clauses)
- ii. Questions on re-ordering/transformation of sentences

(Total seven questions to be done out of the eight given).

V. Creative Writing Skills

16 Marks

- i. Short writing task – Classified Advertisements up to 50 words. (3 Marks: Format : 1 / Content : 1 / Expression : 1)
- ii. Short writing task –Poster up to 50 words. (3marks:Format : 1 / Content : 1 / Expression : 1)
- iii. Writing a Speech in 120-150 words based on verbal / visual cues related to some contemporary / age-appropriate topic. (5 Marks: Format: 1 / Content: 2 / Expression: 2)
- iv. Writing a Debate based on visual/verbal inputs in 120-150 words. The theme should be contemporary topical issues. (5 Marks: Format: 1 / Content: 2 / Expression: 2)

Section C

VI. Reference to the Context

- i. Poetry extract from the book **Hornbill**. (3x1=3 Marks)
- ii. Prose extract from the book **Hornbill**. (3x1=3 Marks)
- iii. Prose extract from the book **Snapshots**. (4x1=4 Marks)

VII. Short answer type question (one from Prose and one from Poetry from the book **Hornbill**), to be answered in 40-50 words. (3x2=6 Marks)

VIII. Short answer type question, from the book **Snapshots**, to be answered in 40- 50 words. (3x1=3 Marks)

IX. Long answer type question, from **Prose/Poetry Hornbill**, to be answered in 120-150 words. (1x6=6 Marks)

X. Long answer type question, based on the chapters from the book **Snapshots** to be answered in 120-150 words. (1x6=6 Marks)

SUBJECT: PHYSICS

HALF YEARLY EXAM	FINAL EXAM
<p>Theory</p> <ol style="list-style-type: none"> Physical World Units and Measurements Motion in a Straight Line Motion in a Plane Laws of Motion Work, Energy and Power Gravitation Mechanical Properties of Solids <p>Practicals</p> <ol style="list-style-type: none"> To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/calorimeter using Vernier Callipers and hence find its volume. To measure diameter of a given wire and thickness of a given sheet using screw gauge. To determine radius of curvature of a given spherical surface by a spherometer. Using a simple pendulum, plot its L-T² graph and use it to find the effective length of second's pendulum. <p>List of Activities</p> <ol style="list-style-type: none"> To make a paper scale of given least count To plot a graph for a given set of data To measure the force of limiting friction for rolling of a roller on a horizontal plane. 	<p>Theory</p> <ol style="list-style-type: none"> System of Particles and Rotational Motion Mechanical Properties of Fluids Thermal Properties of Matter Thermodynamics Kinetic Theory Oscillations Waves <p>Practicals</p> <ol style="list-style-type: none"> To find the force constant of a helical spring by plotting a graph between load and extension. 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. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions. <p>List of Activities</p> <ol style="list-style-type: none"> To observe change of state and plot a cooling curve for molten wax To note the change in level of liquid in a container on heating and interpret the observations To study the features affecting the rate of loss of heat of a liquid. <p>Note :- Full course of Half Yearly Exam will be included in Final Exam.</p>

Books prescribed by NCERT.

COURSE STRUCTURE

Time: 3 hrs.

Max Marks: 70

		Marks
Unit-I	Physical World and Measurement	
	Chapter-2: Units and Measurements	
Unit-II	Kinematics	23
	Chapter-3: Motion in a Straight Line	
	Chapter-4: Motion in a Plane	
Unit-III	Laws of Motion	
	Chapter-5: Laws of Motion	
Unit-IV	Work, Energy and Power	17
	Chapter-6: Work, Energy and Power	
Unit-V	Motion of System of Particles and RigidBody	
	Chapter-7: System of Particles and Rotational Motion	
Unit-VI	Gravitation	
	Chapter-8: Gravitation	
Unit-VII	Properties of Bulk Matter	
	Chapter-9: Mechanical Properties of Solids	
	Chapter-10: Mechanical Properties of Fluids	

	Chapter–11: Thermal Properties of Matter	20
Unit–VIII	Thermodynamics	
	Chapter–12: Thermodynamics	
Unit–IX	Behaviour of Perfect Gases and Kinetic Theory of Gases	
	Chapter–13: Kinetic Theory	10
Unit–X	Oscillations and Waves	
	Chapter–14: Oscillations	
	Chapter–15: Waves	
Total		70

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
Total	30 Marks

SUBJECT: CHEMISTRY

HALF YEARLY EXAM	FINAL EXAM
<p>Theory Unit 1: Some Basic Concepts of Chemistry Unit 2: Structure of Atom Unit 3: Classification of Elements and Periodicity in Properties Unit 4: Chemical Bonding and Molecular Structure Unit 5: Chemical Thermodynamics Unit 6 : Equilibrium</p> <p>Practicals 1. Crystallization of impure sample of Alum or CuSO₄ 2. Qualitative Analysis: Determination of anions – CO₃²⁻, S²⁻, SO₃²⁻, NO₂⁻, CH₃COO⁻, SO₄⁻², NO₃⁻, Cl⁻, Br⁻, I⁻, PO₄³⁻, C₂O₄²⁻</p>	<p>Theory Unit 7 : Redox Reactions Unit 8 : Organic Chemistry : Some Basic Principles and Technique Unit 9 : Hydrocarbons</p> <p>Practicals 1. Qualitative Analysis: 1. Determination of Cations – Pb²⁺, Cu²⁺, Al⁺³, Fe⁺³, Mn⁺², Ni⁺², Zn⁺², Co⁺², Ca⁺², Sr⁺², Ba⁺², Mg⁺², NH₄⁺ 2. Detection of Nitrogen, Sulphur, Chlorine in organic compound</p> <p>2. Quantitative Analysis: (i) Using a Chemical balance (ii) Preparation of Standard Solution of oxalic acid and sodium carbonate (iii) Determination of strength of a given solution of sodium hydroxide by titrating it against standard solution of oxalic acid. (iv) Determination of strength of a given solution of hydrochloric acid by titrating it against standard sodium carbonate solution.</p> <p>Note :- Full course of Half Yearly Exam will be included in Final Exam.</p>

Books prescribed by NCERT.

COURSE STRUCTURE

Time:3 Hours		Total Marks 70
S.NO	UNIT	MARKS
1	Some Basic Concepts of Chemistry	7
2	Structure of Atom	9
3	Classification of Elements and Periodicity in Properties	6
4	Chemical Bonding and Molecular Structure	7
5	Chemical Thermodynamics	9
6	Equilibrium	7
7	Redox Reactions	4
8	Organic Chemistry: Some basic Principles and Techniques	11
9	Hydrocarbons	10
	TOTAL	70

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
Total	30 Marks

SUBJECT: MATHEMATICS**HALF YEARLY EXAM****FINAL EXAM**

- L-1. Sets
 L-2. Relations and Functions
 L-3. Trigonometric Functions
 L-5. Complex number and Quadratic Equation
 L-6. Linear Inequalities
 L-9. Sequence and Series
 L-10. Straight Lines

- L-7. Permutation and Combinations
 L-8. Binomial Theorem
 L-11. Conic Sections
 L-12. Introduction to 3 D Geometry
 L-13. Limits and Derivatives
 L-15. Statistics
 L-16. Probability

Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

Three Hours

Max Marks: 80

No.	Units	Marks
I.	Sets and Functions	23
II.	Algebra	25
III.	Coordinate Geometry	12
IV.	Calculus	08
V.	Statistics and Probability	12
	Total	80
	Internal Assessment	20

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

SUBJECT: APPLIED MATHEMATICS

HALF YEARLY EXAM	FINAL EXAM
L 1 Numbers & Quantification L 2 Numerical Applications L 3 Sets L 4 Relations L 5 Sequence and Series L 10 Descriptive Statistics	L 6 Permutations and Combinations L 7 Mathematical Reasoning L 8 Calculus L 9 Probability L 11 Basics of Financial Mathematics L 12 Coordinate Geometry Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.**Time: 3 Hours****Max Marks: 80**

No.	Units	Marks
I	Numbers, Quantification and Numerical Applications	09
II	Algebra	15
III	Mathematical Reasoning	06
IV	Calculus	10
V	Probability	08
VI	Descriptive Statistics	12
VII	Basics of Financial Mathematics	15
VIII	Coordinate Geometry	05
	Total	80
	Internal Assessment	20

INTERNAL ASSESSMENT

Sl. No.	Area and Weightage	Assessment Area	Marks allocated
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
		Total	20

SUBJECT: BIOLOGY**HALF YEARLY EXAM****FINAL EXAM****Theory**

- Ch. 1 The Living World
 Ch. 2 Biological Classification
 Ch. 3 Plant Kingdom
 Ch. 4 Animal Kingdom
 Ch. 5 Morphology of Flowering Plants
 Ch. 8 Cell-The Unit of Life
 Ch. 10 Cell Cycle and Cell Division
 Ch. 17 Breathing and Exchange of Gases
 Ch. 18 Body Fluids and Circulation

Practicals**A- List of Experiments**

- Study and description of three locally available common flowering plants, one from each of the families Solanaceae, Fabaceae and 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). Types of root (Tap and adventitious); stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound).
- Test for presence of urea in urine.
- Test for presence of sugar in urine.
- Test for presence of albumin in urine.
- Test for presence of bile salts in urine.

B- Study/observation of the following (spotting)

- Study of the parts of a compound microscope.
- 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.
- Virtual specimens/slides/models and identifying features of - Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit.
- Different types of inflorescence (cymose and racemose).
- Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides.

Theory

- Ch. 6 Anatomy of Flowering Plants
 Ch. 7 Structural Organisation in Animals
 Ch. 9 Biomolecules
 Ch. 13 Photosynthesis in Higher Plants
 Ch. 14 Respiration in Plants
 Ch. 15 Plant Growth & Development
 Ch. 19 Excretory Products and Their Elimination
 Ch. 20 Locomotion and Movement
 Ch. 21 Neural Control and Coordination
 Ch. 22 Chemical Coordination and Integration

Practicals**A- List of Experiments**

- Preparation and study of T.S. of dicot and monocot roots and stems (primary).
- Separation of plant pigments through paper chromatography.
- Study of osmosis by potato osmometer.
- Study of plasmolysis in epidermal peels (e.g. Rhoeo leaves).
- Study of distribution of stomata in the upper and lower surface of leaves.
- Comparative study of the rates of transpiration in the upper and lower surface of leaves.
- Test for the presence of sugar, starch, proteins and fats. Detection in suitable plant and animal materials.
- Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.

B- Study/observation of the following (spotting)

- Human skeleton and different types of joints with the help of virtual images/models only.

Project Work

Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

COURSE STRUCTURE

Time: 03 Hours

Max. Marks: 70

Unit	Title	Marks
I	Diversity of Living Organisms	15
II	Structural Organization in Plants and Animals	10
III	Cell: Structure and Function	15
IV	Plant Physiology	12
V	Human Physiology	18
	Total	70

PRACTICALS**Time: 03 Hours****Max. Marks: 30**

Evaluation Scheme		Marks
One Major Experiment Part A		5 Marks
One Minor Experiment Part A		4 Marks
Slide Preparation Part A		5 Marks
Spotting Part B		7 Marks
Practical Record + Viva Voce	(Credit to the students' work over the academic session may be given)	4 Marks
Project Record + Viva Voce		5 Marks
Total		30 Marks

SUBJECT: ACCOUNTANCY**HALF YEARLY EXAM****FINAL EXAM**

Ch 1: Introduction to Accounting
 Ch 2: Basic Accounting Terms
 Ch 3: Theory Base of Accounting, Accounting Standards
 Ch 4: Basis of Accounting
 Ch 5: Accounting Equations
 Ch 6: Accounting Procedures – Rules of Debit & Credit
 Ch 7: Origin of transactions – Source Documents & Preparation of Vouchers
 Ch 8: Journal
 Ch 9: Ledger
 Ch 10: Special purpose Books I – Cash Book

Ch 11: Special purpose Books II – Other Books
 Ch 12: Bank Reconciliation Statement
 Ch 13: Trial Balance
 Ch 14: Depreciation
 Ch 15: Provisions and Reserves
 Ch 17 : Rectification of Errors
 Ch 18: Financial Statements of Sole proprietorship
 Ch 19: Adjustments in Preparation of Financial Statements

Note :- Full course of Half Yearly Exam will be included in Final Exam.

Course Structure

Theory: 80 Mark
Project: 20 Marks

3 Hours

Units	Marks
Part A: Financial Accounting-I	
Unit-1: Theoretical Framework	12
Unit-2: Accounting Process	44
Part B: Financial Accounting-II	
Unit-3: Financial Statements of Sole Proprietorship	24
Part C: Project Work	
	20

Project Work

Comprehensive project of any sole proprietorship business. This may state with journal entries and their ledgering, 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.

Half Yearly Exam Project work - 20 marks
 Final Exam Project work - 20 marks

SUBJECT: BUSINESS STUDIES

HALF YEARLY EXAM	FINAL EXAM
<p>Part A: Foundations of Business</p> <p>1. Evolution and Fundamentals of Business 2. Forms of Business Organisations 3. Public, Private and Global Enterprises 4. Business Services</p> <p>Project Work</p>	<p>Part B: Finance and Trade</p> <p>5. Emerging Modes of Business 6. Social Responsibility of Business and Business Ethics 7. Sources of Business Finance 8. Small Business and Enterprises 9. Internal Trade 10. International Trade</p> <p>Project Work</p> <p>Note :- Full course of Half Yearly Exam will be included in Final Exam.</p>

Books prescribed by NCERT.

Course Structure

Theory: 80 Marks

3 Hours

Project: 20 Marks

Units		Marks
Part A	Foundations of Business	
1	Nature and Purpose of Business	16
2	Forms of Business Organisations	
3	Public, Private and Global Enterprises	14
4	Business Services	
5	Emerging Modes of Business	10
6	Social Responsibility of Business and Business Ethics	
	Total	40
Part B	Finance and Trade	
7	Sources of Business Finance	20
8	Small Business	
9	Internal Trade	20
10	International Business	
	Total	40
	Project Work (One)	20

Project Work

Choose any one topic from the following :

I. Project One: Field Visit

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

1. Visit to a Handicraft Unit

The purpose of visiting a Handicraft unit is to understand nature and scope of its business, stake holders 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.
- l) 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 whole sale 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.
- l) 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 lay out.
- 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: 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.

ASSESSMENT

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
	Total	20 Marks

SUBJECT: ECONOMICS

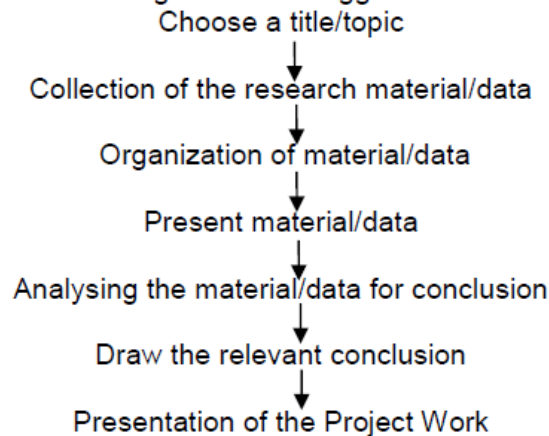
HALF YEARLY EXAM	FINAL EXAM
<p><u>PART-A (Statistics for Economics)</u> Unit 1 : Introduction Unit 2 : Collection, Organisation and Presentation of Data</p> <p><u>PART-B (Introductory Microeconomics)</u> Unit 4 : Introduction Unit 5 : Consumer's Equilibrium and Demand</p> <p>Project Work</p>	<p><u>PART-A (Statistics for Economics)</u> Unit 3 : Statistical Tools and Interpretation</p> <p><u>PART-B (Introductory Microeconomics)</u> Unit 6 : Producer Behaviour and Supply Unit 7 : Forms of Market and Price Determination under perfect competition with simple applications</p> <p>Project Work</p> <p>Note :- Full course of Half Yearly Exam will be included in Final Exam.</p>

COURSE STRUCTURE**Theory: 80 Marks****3 Hours****Project: 20 Marks**

Units	Marks
Part A	Statistics for Economics
	Introduction
	Collection, Organisation and Presentation of Data
	Statistical Tools and Interpretation
	40
Part B	Introductory Microeconomics
	Introduction
	Consumer's Equilibrium and Demand
	Producer Behaviour and Supply
	Forms of Market and Price Determination under perfect competition with simple applications
	40
Part C	Project Work
	20

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 XI	
<ul style="list-style-type: none"> Effect on PPC due to various government policies 	<ul style="list-style-type: none"> Invisible Hand (Adam Smith)
<ul style="list-style-type: none"> Opportunity Cost as an Economic Tool (taking real life situations) 	<ul style="list-style-type: none"> Effect of Price Change on a Substitute Good (taking prices from real life visiting local market)
<ul style="list-style-type: none"> Effect on equilibrium Prices in Local Market (taking real life situation or recent news) 	<ul style="list-style-type: none"> Effect of Price Change on a Complementary Good (taking prices from real life visiting local market)
<ul style="list-style-type: none"> Solar Energy, a Cost Effective Comparison with Conventional Energy Sources 	<ul style="list-style-type: none"> Bumper Production- Boon or Bane for the Farmer
<ul style="list-style-type: none"> Any other newspaper article and its evaluation on basis of economic principles 	<ul style="list-style-type: none"> Any other topic

PRACTICAL

Half Yearly Exam Exam Project work – 20 marks (File 12 marks and Viva 8 marks)

Final Exam Project work – 20 marks (File 12 marks and Viva 8 marks)

SUBJECT: ENTREPRENEURSHIP**HALF YEARLY EXAM****FINAL EXAM**

Unit-1: Entrepreneurship – Concept & Functions
 Unit-2 : An Entrepreneur
 Unit-3: Entrepreneurship Journey
 Unit-4 : Entrepreneurship as Innovation & Problem Solving

Unit-5 : Concept of Market
 Unit-6 : Business Finance and Arithmetic
 Unit-7 : Resource Mobilization

Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.**Theory Paper**

Time: 3 hours

Maximum marks: 70

S.No.	Unit	Marks
Unit 1	Entrepreneurship: Concept and Functions	15
Unit 2	An Entrepreneur	
Unit 3	Entrepreneurial Journey	20
Unit 4	Entrepreneurship as Innovation and Problem Solving	
Unit 5	Understanding the Market	15
Unit 6	Business Finance and Arithmetic	20
Unit 7	Resource Mobilization	
	PROJECT WORK	30
	Total	100

PROJECT WORK

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

Assessment details for the project work:

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

TOPICS FOR THE PROJECT:

1. Visit of the District Industries Centre and prepare a report of activities and programs undertaken by them
2. Conduct a case study of any entrepreneurial venture in your nearby area.
3. Field Visit: Visit any business firm near your locality; interact with the owner of the business firm and prepare a field report on parameters like: type of business, scale of business, product/service dealing in, target customer, problems faced and measures to solve the faced challenges.
4. Learn to Earn
5. Know your State Handicraft and Handlooms as a means of economic activity for the livelihood of people and intellectual property rights attached to them for the promotion of local specific skills.

PRACTICAL

Half Yearly Exam - Project Work 30 marks

Final Exam - Project Work 30 marks

SUBJECT: PHYSICAL EDUCATION

HALF YEARLY EXAM	FINAL EXAM
Unit I : Changing Trends and Career in Physical Education Unit II : Olympism Unit III : Yoga Unit IV : Physical Education & Sports for CWSN (Children with Special Needs-Divyang) Unit V : Physical Fitness, Wellness and Lifestyle	Unit VI : Test, Measurement & Evaluation Unit VII : Fundamentals of Anatomy, Physiology in Sports Unit VIII : Fundamentals of Kinesiology and Biomechanics in Sports Unit IX : Psychology and Sports Unit X : Training and Doping in Sports Practicals Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.**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: Labelled diagram of 400 M Track & Field with computations.

❖ Practical-2: Describe Changing Trends in Sports & Games in terms of changes in Playing surface, Wearable gears, Equipment, Technological advancements.

❖ Practical-3: Labelled diagram of field & equipment of any one IOA recognised Sport/Game of choice.

SUBJECT : INFORMATICS PRACTICES

HALF YEARLY EXAM	FINAL EXAM
<p>Unit I- Introduction to Computer Systems Ch. 1 Basic Computer Organization Ch. 2 Fundamental of Computer</p> <p>Unit II- Introduction to Python Ch. 3 Basics of Python Programming Ch. 4 Lists Manipulation Ch. 5 Dictionary</p> <p>Unit III- Database Concepts and SQL Ch. 6 Relational DBMS Ch. 7 Simple Queries in SQL Ch. 8 Table Creation and Data Manipulation Commands</p> <p>Practical Programming in Python SQL Queries</p>	<p>Unit III- Database Concepts and SQL Ch. 9 DDL / DML Commands</p> <p>Unit IV- Introduction to the emerging Trends Ch.10 Artificial Intelligence Ch. 11 Machine Learning, Natural Language Processing Ch. 12 Big Data and Cloud Computing Ch. 13 Grid Computing and Block Chain Technology</p> <p>Project Work based on Python Programming</p> <p>Note :- Full course of Half Yearly Exam will be included in Final Exam.</p>

COURSE STRUCTURE

Unit No	Unit Name	Marks
1	Introduction to computer system	10
2	Introduction to Python	25
3	Database concepts and the Structured Query Language	30
4	Introduction to Emerging Trends	5
	Practical	30
	Total	100

MARKS DISTRIBUTION (PRACTICAL)

S. No.	Description	Marks
1.	Problem solving using arithmetic operations, conditional statements and iterations with the help of a Python program 60% logic + 20% documentation + 20% code quality (To be tested on the day of the final exam)	6
2.	Problem solving using numPy (To be tested on the day of the final exam)	4
3.	SQL - 5 Queries based on single table (To be tested on the day of the final exam)	5
4.	Report File ● Minimum 20 Python Programs ● Minimum 20 SQL Queries	6
5.	Viva	4
6.	Project using the concepts learnt in the course	5
	Total	30

SUBJECT: PAINTING

HALF YEARLY EXAM

FINAL EXAM

Theory

UNIT-I

- (A) Elements of Art and Principles of design
 (B) Introduction to Pre-historic Rock Painting
 (i) Study of Pre-historic Painting
 (a) Wizard Dance, Bhimbethka
 (C) Introduction to Art of Indus Valley and related areas as Ropar, Lothal, Rangpur, Alamgirpur etc.
 (i) Period and location
 (ii) Study of the following sculptures and terracottas
 (a) Dancing Girl
 (b) Male Torso
 (c) Mother Goddess
 (d) Bull Seal
 (e) Decoration on earthen – ware

UNIT-II

- (A) Introduction to Ajanta
 (i) Period and location
 (ii) Study of the following Painting & Sculptures
 (a) Padmapani Bodhisattva (Mural Painting)
 (b) Mar Vijay (Sculpture)
 (B) General introduction to Art during Mauryan, Shunga, Kushana, Gandhara and Gupta Period
 (i) Study of the Sculptures
 (a) Lion Capital Sarnath
 (b) Chauri Bearer from Didar Ganj
 (c) Seated Buddha from Katra Tila Mathura
 (d) Jain Tirathankara

Practical

(i) Nature and Object Study

Study of two or three natural and geometric forms in pencil with light and shade from a fixed point of view. Natural forms like plants, vegetables, fruits and flowers, etc., are to be used. Geometrical forms of objects like cubes, cones, prisms, cylinders and spheres should be used.

(ii) Painting Composition

- (a) Simple exercises of basic design in variation of geometric and rhythmic shapes in geometrical and decorative designs and colours to understand designs as organised visual arrangements.
 (b) Sketches from life and nature

Theory

UNIT-III

- (A) Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture
 (i) Study of following Temple sculptures
 (a) Trimurti
 (b) Lakshmi Narayan Temple
 (c) Descent of Ganga
 (d) Cymbal Player, Sun Temple
 (e) Mother and Child (Mount Abu) white marble
 (ii) Bronzes (South Indian Bronzes)
 (a) Nataraj
 (iii) Artistic Aspects of the Indo-Islamic Architecture
 (a) Qutub Minar, Delhi
 (b) Gol Gumbaj, Bijapur

Practical

(i) Nature and Object Study

Study of two or three natural and geometric forms in pencil with light and shade from a fixed point of view. Natural forms like plants, vegetables, fruits and flowers, etc., are to be used. Geometrical forms of objects like cubes, cones, prisms, cylinders and spheres should be used.

(ii) Painting Composition

- (a) Simple exercises of basic design in variation of geometric and rhythmic shapes in geometrical and decorative designs and colours to understand designs as organised visual arrangements.
 (b) Sketches from life and nature

(iii) Indian Folk Art

Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT, History of Indian Art.

THEORY

One Theory Paper

30 Marks

Unit wise Weightage

Time: 2 Hours

Units		Marks
History of Indian Art		
1	Pre-Historic rock paintings and art of Indus Valley	10
2	Buddhist, Jain and Hindu Art	10
3	Temple Sculptures, Bronzes and Artistic aspects of Indo- Islamic architecture	10
Total		30

PRACTICAL

One Practical Paper

70 Marks

Time: 6 Hours (3+3)

Unit wise Weightage

Units		Marks
1	Nature and Object Study	25
2	Painting Composition	25
3	Portfolio Assessment	20
	Total	70

SUBJECT: COMMERCIAL ART

HALF YEARLY EXAM

FINAL EXAM

Theory

UNIT-I

- (A) **Elements of Art and Principles of design**
 (B) **Introduction to Pre-historic Rock Painting**
 (i) Study of Pre-historic Painting
 (a) Wizard Dance, Bhimbethka
 (C) **Introduction to Art of Indus Valley and related areas as Ropar, Lothal, Rangpur, Alamgirpur etc.**
 (i) Period and location
 (ii) Study of the following sculptures and terracottas
 (a) Dancing Girl
 (b) Male Torso
 (c) Mother Goddess
 (d) Bull Seal
 (e) Decoration on earthen – ware

UNIT-II

- (A) **Introduction to Ajanta**
 (i) Period and location
 (ii) Study of Painting & Sculptures
 (a) Padmapani Bodhisattva (Mural Painting)
 (b) Mar Vijay (Sculpture)
 (B) **General introduction to Art during Mauryan, Shunga, Kushana, Gandhara and Gupta Period**
 (i) Study of the Sculptures
 (a) Lion Capital Sarnath
 (b) Chauri Bearer from Didar Ganj
 (c) Seated Buddha from Katra Tila Mathura
 (d) Jain Tirathankara

Practical

- (i) Drawing
 Drawing from Still-Life and Nature, medium-pencil monochrome/colour.
 (ii) (a) Lettering
 Study of lettering of Roman and Devnagri Scripts identification of some type-faces and their sizes
 (b) Layout
 Making a simple layout with lettering as the main component.

Theory

UNIT-III

- (A) **Temple Sculpture, Bronzes and Artistic Aspects of Indo-Islamic Architecture**
 (i) Study of following Temple sculptures
 (a) Trimurti
 (b) Lakshmi Narayan Temple
 (c) Descent of Ganga
 (d) Cymbal Player, Sun Temple
 (e) Mother and Child (Mount Abu) white marble
 (ii) Bronzes (South Indian Bronzes)
 (a) Nataraj
 (iii) Artistic Aspects of the Indo-Islamic Architecture
 (a) Qutub Minar, Delhi
 (b) Gol Gumbaj, Bijapur

Practical

- (i) Drawing
 Drawing from Still-Life and Nature, medium-pencil monochrome/colour.
 (ii) (a) Lettering
 Study of lettering of Roman and Devnagri Scripts identification of some type-faces and their sizes
 (b) Layout
 Making a simple layout with lettering as the main component.
 (iii) Indian Folk Art

Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT, History of Indian Art.

THEORY

One Theory Paper

30 Marks

Unit wise Weightage

Time: 2 Hours

Units		Marks
History of Indian Art		
1	Pre-Historic rock paintings and art of Indus Valley	10
2	Buddhist, Jain and Hindu Art	10
3	Temple Sculptures, Bronzes and Artistic aspects of Indo- Islamic architecture	10
		30

PRACTICAL

One Practical Paper

70 Marks

Time: 6 Hours (3+3)

Unit wise Weightage

Units		Marks
1	Drawing	25
2	Lettering and layout	25
3	Portfolio Assessment	20
		70

SUBJECT: PSYCHOLOGY**Half Yearly Exam****FINAL EXAM****Theory**

Unit 1: What is Psychology?
 Unit 2: Methods of Enquiry in Psychology
 Unit 4: Human Development
 Unit 5: Sensory, Attentional and Perceptual Processes
 Unit 6: Learning

Practical Examination

1. Project File
2. Practical (Experiments) file
 - (i) Span of Attention
3. Viva Voce (Project and Experiments)
4. One experiment

Theory

Unit 7: Human Memory
 Unit 8 : Thinking
 Unit 9 : Motivation and Emotion

Practical Examination

1. Project File
2. Practical (Experiments) file
 - (i) Learning
 - (ii) Memory
 - (iii) Motivation
 - (iv) Perception
 - (v) Span of Attention (any three experiments)
3. Viva Voce (Project and Experiments)
4. One experiment

Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

COURSE STRUCTURE

Theory Paper

**3 hours
Marks: 70**

Units	Topics	Marks
I	What is Psychology?	11
II	Methods of Enquiry in Psychology	13
IV	Human Development	11
V	Sensory, Attentional and Perceptual Processes	8
VI	Learning	9
VII	Human Memory	8
VIII	Thinking	5
IX	Motivation and Emotion	5
	Total	70

Practical Examination

• Practical (Experiments) file	05 Marks
• Project File	05 Marks
• Viva Voce (Project and experiments)	05 Marks
• One experiment (05 marks for conduct of experiment and 10 marks for reporting)	15 Marks
Total	30 Marks

SUBJECT: LEGAL STUDIES**HALF YEARLY EXAM****FINAL EXAM**

Unit 1 : Introduction to Political Institutions
 Unit 2 : Basic Features of The Constitution of India

Project Work

Unit 3 : Jurisprudence, Nature and Sources of Laws
 Unit 4 : Judiciary : Constitutional, Civil And Criminal Courts And Processes
 Unit 5 : Family Justice System

Project Work

Note :- Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by CBSE

COURSE STRUCTURE

Time: 3 hrs.

Marks: 80

S. No.	Units	Marks
1	Introduction to Political Institutions	15
2	Basic Features of The Constitution of India	15
3	Jurisprudence, Nature and Sources of Laws	15
4	Judiciary : Constitutional, Civil And Criminal Courts And Processes	20
5	Family Justice System	15
6	Project	20
	Total	100

PROJECT GUIDELINES

Students can opt for any ONE Project from the three topics given.

Topic 1: Students can prepare a research paper on any legal problem from the textbook/around them that needs immediate redressal.

Some suggested topics -

- Uniform civil code
- Law reforms in India
- Juvenile justice
- Death penalty
- Any other course related topic

OR

Topic 2- Conduct research and draft a report on any recent legislation/ amendment that brought about a social change, for example: Consumer Protection Act, Information Technology Act, Right to Information Act etc.

Examine the conditions that give rise to the need for law reform; – The agencies of reform; – Mechanisms of reform; – Assess the effectiveness of law reform in achieving just outcomes with regards to the issue

METHODOLOGY FOR TOPIC 1 & 2-

The project file should be at least 15 pages.

Steps:-

- Choose a topic
- Gather information from various sources
- Write a statement of purpose of the project
- Support it with research evidence
- Presentation of project should include headings
- List the sources

OR

Topic 3 - 'Understanding the important elements of JUDICIAL DECISION '

METHODOLOGY-

1) The student is required to select any 5 decided cases where in One case is of criminal nature, one is civil nature, one is constitutional, one is international context and one is of student's choice (PIL if possible)

2) The research on the cases must include the following points:

- a. Name of the case
- b. Parties to the case
- c. Nature of the case (Civil, criminal or Constitutional)

- d. Facts of the case and issues involved
- e. Decision of the case
- f. Citation of the case

INTERNAL ASSESSMENT

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

SUBJECT: POLITICAL SCIENCE	
HALF YEARLY EXAM	FINAL EXAM
<p>Part A: Indian Constitution at work Ch. 1 Constitution Ch. 2 Election and Representation Ch. 3 The Legislature</p> <p>Part B: Political Theory Ch. 1 Introduction to Political Theory Ch. 2 Liberty Ch. 3 Equality Ch. 4 Justice Ch. 5 Rights</p> <p>Project Work</p> <p>Practical – File (10 marks) and Viva (10 marks)</p>	<p>Part A: Indian Constitution at work Ch. 4 The Executive Ch. 5 The Judiciary Ch. 6 Federalism Ch. 7 Local Governments</p> <p>Part B: Political Theory Ch. 6 Citizenship Ch. 7 Nationalism Ch. 8 Secularism</p> <p>Project Work</p> <p>Practical – File (10 marks) and Viva (10 marks)</p> <p>Note :- Full course of Half Yearly Exam will be included in Final Exam.</p>
Books prescribed by NCERT.	

Details of Project Work

1. The Project work will be implemented for 20 Marks.
2. Out of 20 marks, 10 marks are to be allotted to viva voce and 10 marks for project work.
3. The project can be individual/pair/group of 4-5 each. The Project can be made on the topics given in the syllabus of a particular class.
4. The suggestive list of activities for project work is as follows: -
Role Play, Skit, Presentation, Model, Field Survey, Mock Drills/Mock Event etc.
5. The teacher should give enough time for preparation of the Project Work. The topics for Project Work taken up by the student must be discussed by the teacher in classroom.

SUBJECT: HISTORY**HALF YEARLY EXAM****FINAL EXAM**

1. Writing and City Life
2. An Empire Across Three Continents
3. Nomadic Empires
4. Three Orders

Map Work

5. Changing Cultural Traditions
6. Displacing Indigenous People
7. Paths to Modernization

Map Work

Note: Full course of Half Yearly Exam will be included in Final Exam.

Books prescribed by NCERT.

COURSE STRUCTURE**One-Theory****Paper 80Marks**

3 Hours

S.NO	THEMES	Marks
1.	Introduction to World History	
Section A: Early Societies		
2.	Introduction	
3.	Writing and City Life	10
Section B: Empires		
4.	Introduction	
5.	An empire across three continents	10
6.	Nomadic Empires	10
Section C: Changing Traditions Introduction		
7.	The Three Orders	10
8.	Changing Cultural Traditions	10
Section D: Paths to Modernization		
9.	Introduction	
10.	Displacing Indigenous People	10
11.	Paths To Modernization	15
165	MAP WORK OF THE RELATED THEMES	5
	Total	80
	Project work	20
	Total	100 Marks

FEW SUGGESTIVE TOPICS FOR PROJECTS

- 1) Facets of the Industrialization in sixteenth- eighteenth centuries.
- 2) Crusades: causes; rationale; events; outcomes; Holy Alliance
- 3) Ancient History in depth: Mesopotamia
- 4) Greek Philosophy and City States
- 5) Contributions of Roman Civilization
- 6) The spirit of Renaissance: Manifestation in art; Literature; Sculpture; Influence on Trading Community; Social Fabric; Philosophy; Political Values; Rational Thinking; Existentialism
- 7) Aspects of Development -South American States /Central American States
- 8) Different schools of thoughts -Realism: Humanism: Romanticism
- 9) Piecing together the past of Genghis Khan
- 10) Myriad Realms of Slavery in ancient, medieval, and modern world
- 11) History of Aborigines – America /Australia
- 12) Facets of Modernization – China /Japan/Korea

Practical – File (10 marks) and Viva (10 marks)