

Scheme of work 2020-21

Standard XI

ENGLISH ELECTIVE

Prescribed Text: Horn Bill – English Reader Text - Snapshots
Canterville Ghost (Goyal Brothers)

First Term

Part I

- HORN BILL** : The Portrait of a Lady
A Photograph (Poem)
SNAP SHOTS : The Summer of the Beautiful White Horse
READING : Comprehension (Landscape of the soul)
WRITING : Notice
Letter – Formal - Enquiry
Letter to Editor
GRAMMAR : Transformation of sentences, editing tasks.

Part II

- HORN BILL** : We're not afraid to die
SNAP SHOTS : The Laburnum Top
The Address
READING : Note making and summarizing
WRITING : Advertisement -Classified / Commercial
GRAMMAR : Active / Passive ; Direct / Indirect Tenses
Grading in listening and speaking skills (ASL)/ Project

Second Term

Part I

- HORN BILL** : Discovering Text : the Saga continues
The voice of the rain
SNAPSHOTS : Ranga's marriage
READING : Comprehension, Note making
WRITING : Letter - Formal -Complaint / placing order
GRAMMAR : Transformation of sentences, Editing tasks

Part II

- HORN BILL** : The browning version
Childhood (poem)
The Ailing Planet
SNAPSHOTS : Albert Einstein at school
READING : Notemaking & Summarizing
WRITING : Report
Article
Poster Designing

GRAMMAR : Transformation of sentences (No sooner-than / Hardly-when)
Prepositions
Rearrange jumbled words
Grading in listening and speaking skills (ASL)

Third Term

HORN BILL : Silk Road (Comprehension)
The Adventure
Father to son (poem)

SNAPSHOTS : Birth
Mother's day (Drama)
The Tale of Melon City (Poem)
Ghat of the only world

READING : Comprehension, Notemaking & Summarizing

WRITING : Letter to the Principal
Speech
Debate
Factual Description

GRAMMAR : Correction of sentences
Transformation of sentences
Editing tasks
Grading in listening and speaking skills (ASL) / Project

MATHEMATICS

Prescribed Text: Maths For XI Part I &II

First Term

1. Sets
2. Relations and Functions
3. Trigonometry
4. Complex Numbers

Second Term

1. Sequence & Series
2. Permutations and Combination
3. Binomial Theorem
4. Linear inequalities
5. Three Dimensional Geometry
6. Probability
7. Mathematical Reasoning

Third Term

1. Straight lines
2. Conic Section
3. Principle of Mathematical Induction
4. Statistics
5. Limits & Derivatives

PHYSICS

Prescribed Text: NCERT Physics For XI

First Term

1. Physical world & Measurement
2. Motion in a straight line
3. Motion in a plane
4. Properties of Bulk matter-Solids
5. Thermal Properties

Second Term

6. Laws of Motion
7. Work, energy & Power
8. System of particles and rotational motion
9. Gravitation
10. Properties of liquids

Third Term

11. Gravitation
12. Oscillations
13. Kinetic Theory of Gases
14. Thermodynamics
15. Waves

CHEMISTRY

Prescribed Text: NCERT Chemistry For XI

First Term

1. Some basic concepts in Chemistry
2. States of matter
3. Structure of atom
4. Classifications of elements and periodicity in properties
5. Chemical Bonding & Molecular structure
6. Hydrogen

Second Term

7. Organic Chemistry some basic Principles and Techniques
8. Equilibrium
9. Thermodynamics
10. s-block elements
11. p-block elements

Third Term

12. Hydrocarbons
13. Redox Reactions
14. Environmental Chemistry

BIOLOGY

Prescribed Text: NCERT Biology For Class XI

First Term

Chapter 8- Cell-the unit of Life
Chapter 9- Biomolecules
Chapter 10- Cell cycle & cell division
Chapter 1- The living world
Chapter 2- Biological classification
Chapter 3- Plant kingdom
Chapter 4- Animal kingdom
Chapter 7- Structural organization in Animals
Chapter 5- Morphology of flowering plants

Second Term

Chapter 6- Anatomy of flowering plants
Chapter 11- Transport in plants
Chapter 16- Digestion and absorption
Chapter 17- Breathing and exchange of gases
Chapter 18- Body fluids and circulation
Chapter 12- Mineral Nutrition
Chapter 13- Photosynthesis in higher plants
Chapter 15- Plant growth and development

Third Term

Chapter 14- Respiration in plants
Chapter 19- Excretory products and their elimination
Chapter 20- Locomotion and movement
Chapter 21- Neural control and coordination
Chapter 22- Chemical co-ordination and integration

COMPUTER SCIENCE

Prescribed Text: Computer science With Python- Sumita Arora XI

First Term

1. Computer systems and Organisation
2. Data Representation
3. Computational Thinking and Programming
 - Introduction-Variables & Datatypes
 - Conditional Statements
 - Looping constructs (for, while)
 - Strings
 - Lists

Second Term

- Tuples
- Dictionary
- Boolean Algebra

Third Term

- Sorting (Bubble sort, Insertion sort)

- Data Management
- Cyber Safety and Security

ECONOMICS

Prescribed Text: Statistics for Economics / Introductory Micro Economics

First Term

Micro Economics

1. Introduction to Micro Economics
2. Consumer's Equilibrium & Demand

Statistics

1. Introduction
2. Collection, Organization & Presentation of Data
Statistical tools & Interpretation
3. Measures of Central Tendency

Second Term

Micro Economics

1. Producer Behaviour & Supply

Statistics

1. Statistical tools (cont.)
2. Measures of dispersion
3. Correlation

Third Term

Micro Economics

1. Forms of Market & Price determination under perfect competition

Statistics (IV) Index Numbers

1. Project submission and viva- voce

BUSINESS STUDIES

Prescribed Text: Business Studies For XI

First Term

- Chapter 1 . Nature and Purpose of Business
 Chapter 2 . Forms of Business Organisation
 Chapter 3 . Private, Public and Global Enterprises
 Chapter 4 . Business Services

Second Term

- Chapter 5 . Emerging modes of business
 Chapter 6 . Social Responsibilities of Business and Business Ethics
 Chapter 7 . Formation of a Company
 Chapter 8 . Sources of Business Finance
 Chapter 9 . Small Business

Chapter 10. Internal Trade

Third Term

Chapter 11. International Business – I

Chapter 12. International Business – II

ACCOUNTANCY

Prescribed Text: Accountancy Part I & II For XI

First Term

1. Introduction to Accounting
2. Theory Base of Accounting
3. Recording of Transactions.[Including GST]
4. Preparation of Ledges, trial balance and bank reconciliation statement

Second Term

1. Bank Reconciliation Statement
2. Depreciation, Provisions & Reserves
3. Bills of Exchange & rectification of errors
4. Financial Statements of sole proprietorship

Third Term

1. Cont. of financial statements
2. Accounts from Incomplete records

Revision

SOCIOLOGY

Prescribed Text: NCERT-Introducing Sociology
NCERT- Understanding Society

First Term

Introducing Sociology

1. Society, Sociology and relationship with other Social Science
2. Basic Concepts
3. Social Institutions
4. Culture & Society
5. Practical Sociology – Methods & techniques
6. Western Social Thinkers- Auguste Comte, Karl Marx, Max Weber, Emile Durkheim, Herbert Spencer

Second Term

Understanding Society.

1. Structure, process and stratification
2. Social Change
3. Environment & Society
4. Indian Sociologists.

Third Term

1. Structure, Function and System
2. Rural – Urban Continuum

PSYCHOLOGY

Prescribed Text: NCERT Psychology Class XI

First Term

What is psychology
Methods of Enquiry in Psychology
The Bases of Human Behaviour
Human Development

Second Term

Human Development (contd)
Sensory, Attentional and Perceptual Processes
Learning
Practicals

Third term

Human Memory
Thinking
Motivation
Practicals

INFORMATICS PRACTICES (NEW)

**Prescribed Text: Informatics Practices with Python –Sumita Arora /
A textbook on Informatics Practices-CBSE**

First Term

Introduction of computer system

- Basic of computer organization
- Basic concept of Data Representation

Introduction of Python Programming

- Basic of Python Programming
- Conditional statements
- Iterative computation and control flow
- List manipulation

Second term

- Dictionary
- Text Handling
- Introduction to Python Modules

Third Term

Data Handling

- NumPy

Data Management

- Relational Databases
- Simple Queries in SQL

Society, Law & Ethics

- Cyber Safety
- Safely Accessing websites

POLITICAL SCIENCE
Prescribed Text: NCERT Political Theory

First Term

Making of the Constitution
Fundamental Rights
System of Representational Democracy

Unit Test

Executive in a Parliamentary System
Legislature at the Central & State level

Unit Test

Judiciary
Federalism

Unit Test

Local Government
Political Philosophy underlying the Constitution

Unit Test

Second Term

Constitution as a living document
Induction to Political Theory
Freedom
Equality
Social Justice
Rights

Unit Test

Third Term

Citizenship
Nationalism

Unit Test

Secularism
Peace
Development

Unit Test

PHYSICAL EDUCATION

First Term

Physiological Aspects of Physical Education

Second Term

Psychological Aspects of Physical Education
Need and importance of Physical Education

Third Term

Repetition of Skills learnt in previous class
Basket Ball, Football, Hockey, Badminton, Cricket.
Yoga and Meditation Technique

ENVIRONMENTAL EDUCATION

First Term

Unit – 1 Man & Environment

Chapters

- Environment
- Population and environment
- Impact of human activities

Unit II

Chapters

- Development
- Impact of Development

Second Term

Chapters

- Liberalization & globalization
- Pollution
- Ozone depletion and green house effect
- Disasters
- Reducing Pollution

Third Term

Chapters

- Energy Consumption
- Conventional Energy Resources
- Non Conventional Energy Resources
- Conservation of Energy Resources

STANDARD XII

ENGLISH CORE

Prescribed Text: Flamingo – English Reader **Vistas – Supplementary reader**

First Term

Part I

a) Flamingo

1. The Last Lesson
2. My mother at Sixty Six (Poem)
3. Lost Spring
4. An Elementary School Classroom in a slum (Poem)

b) Vistas

1. The Tiger King
2. Should Wizard Hit Mummy
3. The Third Level

c) Writing

1. Invitations and replies
2. Notice
3. Advertisement
4. Note making and summarizing

Part II

a) Flamingo

1. Deep Waters
2. The Rat Trap

3. Keeping Quiet (Poem)
4. Indigo

b) Vistas

1. The Enemy
2. Journey to the end of the Earth

c) Writing

1. Report Writing- Newspaper /Magazine
2. Article – Newspaper/Magazine/Speech/Debate
3. Letter Formal- Job Application

Second Term

Part I

a) Flamingo

1. Poets and Pancakes
2. A thing of beauty
3. The Interview

b) Vistas

1. On the face of it
2. Evan tries an O'level

c) Writing

1. Letter Formal- Enquiry, complaint, to the editor
2. Comprehension
3. Note making and summarizing
4. Factual description

d) Training for conversational skills – listening / speaking

Part II

a) Flamingo

1. Going places
2. Aunt Jennifer's Tigers (poem)
3. A roadside stand

b) Vistas

1. Memories of childhood
 - a. The cutting of my long hair
 - b. We too are human beings

c) Writing

Letter – Informal

Formal – Placing orders, To the Editor

Posters

Profiles

Third Term

Revision

MATHEMATICS

Prescribed Text: NCERT Maths For XII Part I &II

First Term

1. LPP
2. Vectors
3. Three dimensional Geometry
4. Relations and Functions
5. Inverse Trigonometric Functions
6. Continuity and Differentiability

Second Term

7. Application of derivatives
8. Integration
9. Area under curves
10. Differential Equation
11. Probability
12. Matrices and Determinants

Third Term

Revision

PHYSICS

Prescribed Text: NCERT Physics For XII

First Term

1. Electrostatics
2. Current Electricity
3. Magnetic effect
4. Ray Optics & Optical Instruments

Second Term

1. EM Waves
2. Magnetism & Matter
3. EMI & AC
4. Wave Optics
5. Dual Nature of Matter & Radiation
6. Atoms and Nuclei
7. Electronic Devices

Third Term

Revision

CHEMISTRY

Prescribed Text: NCERT Chemistry For XII

First Term

1. Haloalkanes and Haloarenes
2. Solid State
3. Solutions
4. p-block elements
5. Electrochemistry
6. Alcohols, Phenols and ethers
7. Aldehydes, Ketones and Acids
8. Surface Chemistry

Second Term

1. Chemical Kinetics
2. Polymers
3. Co-ordination Compounds
4. d and f block elements
5. Organic compounds containing Nitrogen
6. Biomolecules
7. Chemistry in Everyday life
8. General Principles & processes of Isolation of Elements

Third Term

Revision

BIOLOGY

Prescribed Text: NCERT Biology For XII

First Term

Unit VI

- Chapter 1: Reproduction in organisms
Chapter 2: Sexual reproduction in flowering plants
Chapter 3: Human Reproduction
Chapter 4: Reproductive Health

Unit VII

- Chapter 5: Principles of inheritance and variation
Chapter 6: Molecular Basis of inheritance
Chapter 7: Evolution

Unit VIII

- Chapter 8: Human health and diseases
Chapter 9: Strategies for enhancement in food production
Chapter 10: Microbes in Human Welfare

Second Term

Unit IX

- Chapter 11: Biotechnology – Principles and processes
Chapter 12: Biotechnology and its applications

Unit X

- Chapter 13: Organisms and population
Chapter 14: Ecosystem
Chapter 15: Biodiversity and conservation
Chapter 16: Environmental Issues

Third Term

Revision

COMPUTER SCIENCE

Prescribed Text: Computer Science With Python - XII (Sumita Arora)

A Textbook on Computer Science-CBSE

First Term

1. Programming and Computational Thinking – 2
 - Functions – File Handling

- Recursions
- Data Structures (Stack /Queue circular/Queue)

Second Term

Data Visualization using Pyplot
Data Management – II
Computer Networks
Society Law and Ethics -2

Third Term

Revision and Pre Board Exams

INFORMATICS PRACTICES (NEW) - XII

Prescribed Text: Informatics Practices with Python-Sumita Arora
A Textbook on Informatics Practices-CBSE

First Term

Data Handling (DH-2)

- Python Pandas
- NumPy
- Plotting with Pyplot

Basic Software Engineering (BSE)

Second Term

- Data Management (DM-2)
- Society, Law and Ethics (SLE-2)

Third Term

Revision and Pre Board Exams

ECONOMICS

Prescribed Text : Core CBSE Economics
Indian Economic Development
Introductory Macroeconomics for Class XII

First Term

Microeconomics

1. National Income & Related Aggregates
2. Money & Banking
3. Determination of Income and Employment

Indian Economic Development

1. Development Experience (1947 – 1990)
2. Economic Reforms 1991
3. Current challenges facing Indian Economy
(Poverty, Rural Development & Human Capital Formation)

Second Term

Microeconomics

1. Government Budget & The Economy
2. Balance of Payments

Indian Economic Development

1. Employment, Infrastructure, Sustainable Economic Development
2. Development Experiences of India

Third Term

- Project Submission
- Revision & Pre-Board Exams

BUSINESS STUDIES

Prescribed Text : NCERT Business Studies For XII Part 1&11

First Term

1. Introduction to Management
2. Principles of Management
3. Business Environment
4. Planning
5. Organising
6. Staffing
7. Directing
8. Controlling

Second Term

9. Financial Management
10. Financial Markets
11. Marketing Management
12. Consumer Protection

Project

Third Term

Revision

ACCOUNTANCY

Prescribed Text : NCERT Accountancy Part 1 & 11

First Term

1. Accounting for not for profit organizations
2. Accounting for partnership firms
3. Reconstitution of Partnership
4. Accounting for Companies – Accounting for Share Capital

Second Term

5. Accounting for Companies- Issue of Debentures –Redemption of Debentures
6. Financial Statement Analysis

Third Term

Revision

SOCIOLOGY

Prescribed Text : Indian Society

Text Book of Sociology for Class XII

Social Change and Development In India

First term

Indian Society

1. Introducing Indian Society
2. Demographic Structure & Indian Society
3. Social Institutions – continuity and change
4. Market as a Social Institution
5. Pattern of Social Inequality and exclusion
6. Challenges of cultural Diversity
7. Suggestions for Project Work

Second Term

8. Structural Change
9. Cultural Change
10. The story of Democracy
11. Change and Development in Industrial Society
12. Change and Development in Rural Society
13. Globalization and Social Change
14. Mass Media and Communications
15. Social Movements

Third Term

Revision

POLITICAL SCIENCE

Prescribed Text :NCERT Politics in India since Independence

First Term

Part A Politics in India since Independence

Era of one party dominance

Nation – building and its problems

Unit test

Politics of Planned development

India's External Relations

Unit Test

Challenges to and Restoration of Congress Party

Crisis to the Conditional Orders

Unit Test

Regional aspirations and conflicts

Rise of new social movements

Unit Test

Democratic upsurge and coalition parties

Recent issues and challenges

Unit Test

Cold War Era in World Politics

Disintegration of the Second World and the collapse of Bipolarity

Unit Test

US dominance in World Politics

Alternative centres of Economic & Political Power.

Unit Test

South Asia in the Post Cold War Era

International Organisations in a Unipolar World

Unit Test

Security in Contemporary world
Globalization and its Critics

Unit Test

PSYCHOLOGY

Prescribed Text :NCERT Psychology Class XII(new edition)

First term

Variations in Psychological Attributes
Self and Personality
Meeting Life Challenges
Psychological Disorders
Therapeutic Approaches
Practicals.

Second Term

Attitude and Social Cognition
Social Influence and Group Processes
Psychology and Life
Developing Psychological Skills
Practicals.

PHYSICAL EDUCATION

First Term

Physical fitness and wellness
Means of fitness development
Training methods

Second Term

Sociological Aspects of Physical Education
Healthful Living
Family Health Education

Third Term

Prevention and First Aid for common Sports injuries
Yoga and Meditation Technique