

CLASS IX SYLLABUS

(2020-2021)

ENGLISH LANGUAGE

FIRST UNIT

1. Types Of Sentences
2. Rewriting Of Sentences
3. Correct Form Of Tenses
4. Prepositions
5. Letter Writing(Formal + Imformal)
6. Composition (350-400)
7. Notice Writing
8. E-mail Writing
9. Comprehension (Written/Oral)
10. Joining of Sentences

1st unit

1. Notice Writing
2. E-mail Writing
3. Grammar

Second term

1. Substitution of One Part Speech with Another
2. Question Tags
3. Homophones/Homonyms
4. Differentiation between Two Similar Sentences
5. Revision of First Term Grammar
6. Essay Writing
7. Letter Writing
8. E-mail Writing
9. Notice Writing
10. Comprehension

2nd unit

1. Letter
2. Grammar

Third term

Revision of First and Second Term Syllabus

3rd unit

1. Essay
2. Comprehension

LITERATURE

First Unit

Merchant of Venice (Act 1 - Scene 1)

FIRST TERM

Drama: The Merchant of Venice (Shakespeare's unabridged play by A.W. Verity) ACT 1

Poetry: Treasure trove- a collection of ICSE poems and short stories (evergreen publications (India) Ltd. New Delhi) 1. Television- Roald Dahl 2. Daffodils – William Wordsworth 3. Bangle Sellers – Sarojini Naidu

Prose- Treasure trove- a collection of ICSE poems and short stories (evergreen publications (India) Ltd. New Delhi) 1. A face in the dark –Ruskin bond 2. Angel in disguise- T.S. Arthur 3. Hearts and Hands - O' henry

Second Unit

Merchant of Venice (Act II – Scene I and Scene II)

Second Term

Drama: The Merchant of Venice: ACT II– ACT III (SCENES 1)

Poetry: 1. After Blenheim- Robert Southey 2. Heart of a tree- henry Cuyler burner 3. The cold within- James Patrick Kinney

Prose: 1. A horse and two goats- R.K. Narayan 2. The Man at the Bridge - Earnest Hemmingway

3. Chief Seattles Speech

Third term:

Revision

HINDI

Books

BOOK - PAPER-I सरस हिन्द व्याकरण (IX ,X) (ICSE)

BOOK - PAPER-II साहित्य सागर (ICSE)

एकांकी संचय (ICSE)

FIRST UNIT TEST- 20 marks

FIRST TERM - 80 marks ; TIME: 3 hrs

PAPER-I

- बिलोम शब्द
- पर्यावाची शब्द
- अनेक सब्दो के लिए एक शब्द
- भाववाचक संज्ञा
- विशेषण
- तत्सम - तत्भव
- मुहावरे
- लिंग परिवर्तन
- वचन
- निर्देशानुसार वाक्या परिवर्तन
- प्रत्या - उपसर्ग
- पत्र
- अपठित गद्यांश

- निबंध

PAPER - II साहित्य सागर (संक्षिप्त कहानियाँ)

पाठ - बात अठन्नी की

- काकी
- सहायज्ञ का पुरस्कार

एकांकी संचय

पाठ - संस्कार और भावना

- बहु की विदा

SECOND UNIT TEST - 20 marks

SECOND TERM - 80 marks ; TIME: 3 hrs

PAPER-I सरस हिन्द व्याकरण

- बिलोम शब्द
- पर्यावाची शब्द
- अनेक शब्दों के लिए एक शब्द
- विशेषण
- भाववाचक संज्ञा
- तत्सम - तत्भव
- मुहावरे
- लिंग परिवर्तन
- वचन
- प्रत्या - उपसर्ग
- निर्देशानुसार वाक्या परिवर्तन
- पत्र
- अपठित गद्यांश

PAPER - II साहित्य सागर

पाठ - नेताजी का चश्मा

- अपना-अपना भाग्य
- बड़े घर की बाटी

एकांकी संचय

- पाठ - मातृभूमि का मान
- सूखी डाली

FINAL (MOCK) EXAMS :

First term and second term syllabus is included as per ICSE syllabus

BENGALI

TERM I

চাঁদের পাহাড় - (১- ৫ অধ্যায়)

সংকলিতা- গিন্দি, বামা, লালু, ক্যানভাসার, নাম

ব্যাকরণ-বাগধারা(দহরম মহরম- বাস্তুঘুঘু)revision of class 7 and 8 first term, এক কথায় প্রকাশ(পেনো-স্ট্রেন), বাক্য পরিবর্তন(অর্থগত-গঠনগত), বাচ্য পরিবর্তন, পূর্বপাঠ সমস্ত ব্যাকরণ, চিঠি, ধারণা, রচনা

UNIT - I

গিন্দি, বামা, লালু

চাঁদের পাহাড় - (১, ২, ৩)

TERM II

চাঁদের পাহাড় - (৬, ৭, ৮ অধ্যায়)

সংকলিতা- অসহযোগী, দেবতারজন্ম

ব্যাকরণ- বাগধারা(বেড়মাছের কাঁটাও ভালো- ষাঁড়ের গোবর)revision of class 7 and 8 second term, এক কথায় প্রকাশ(যাযাবর-শ্রীল), revision of class 7 and 8 second term, ছেদ যতি চিহ্নের ব্যবহার, চিঠি, খারণা, রচনা , Full Syllabus Revision (1st term)

UNIT II

চাঁদের পাহাড় - (৬ , ৭ অধ্যায়)

সংকলিতা-অসহোযোগী, দেবতার জন্ম

Format Language-[Essay-15, Letter-7, Comprehension-10, Grammar-8, (Total 40)]

Literature- Attempt 4 Questions, Choosing At Least One Question From Each Of The Prescribed Books (4x10=40)

HISTORY & CIVICS

First unit

- 1) Our Constitution
- 2) The Harappan Civilization

FIRST TERM

- 1) Elections
- 2) Vedic Period
- 3) Jainism and Buddhism
- 4) The Mauryan Empire
- 5) Sangam Age
- 6) Renaissance

Second unit

- 1) Local Self Government (Rural & Urban)

2) Age of the Guptas

SECOND TERM

1) Medieval India (The Cholas)

2) Medieval India(Islamic)

3) Delhi Sultanate

4) Mughal Empire

5) Composite Culture

6) Industrial Revolution

7) Reformation

GEOGRAPHY

First unit

1) Earth As A Plane

2) Latitude and Longitude

First Term

1) Earth As A Plane

2) Latitude and Longitude

3) Rotation and Revolution

4) Landforms of the Earth

5) Rocks

6) Volcanoes

7) Earthquakes

8) Weathering

9) Denudation

10) Hydrosphere

11) Insolation

12) Earth's Structure

13) Pollution

14) map- world map

Second unit

1) Composition and structure of Atmosphere

2) Atmospheric Pressure and Winds

Mock Examination

1) Humidity

2) Sources of pollution

3) Effects of pollution

4) Preventive measures

5) Natural Regions of the World

6) Revision of the Entire Syllabus

7) map- world map

MATHEMATICS

First Unit

1) Rational and Irrational Numbers-Chapter 1

2) Compound Interest (Without Formula)-Chapter 2

FIRST TERM

ARITHMETIC

1) Rational and Irrational Numbers-Chapter 1

COMMERCIAL MATHEMATICS

1) Compound Interest (Without Formula)-Chapter 2

GEOMETRY:

1) Triangles- Chapter -9

- 2) Isosceles triangles- Chapter 10
- 3) Mid-Point & Intercept Theorem & Problems- Chapter 12
- 4) Constructions of Polygons -Chapter 15

ALGEBRA:

- 1) Expansions -Chapter 4
- 2) Factorization -Chapter 5
- 3) Simultaneous Equations and Problems -Chapter 6
- 4) Indices -Chapter 7
- 5) Logarithms -Chapter 8

STATISTICS AND GRAPH WORK:

- 1) Statistics – Chapter 18
- 2) Mean and Median – Chapter 19

MENSURATION

- 1) Area and Perimeter of Plane Figures

TRIGONOMETRY

- 1) Trigonometrical Ratios –_Chapter 22
- 2) Trigonometric Ratios of Standard Angles –_Chapter 23

SECOND UNIT

- 1) Solids –_Chapter 21
- 2) Distance Formula –_Chapter 28

SECOND TERM

COMMERCIAL MATHEMATICS :

- 1) Compound Interest (With Formula) -Chapter 3

GEOMETRY:

- 1) Inequalities -Chapter 11
- 2) Pythagoras Theorem-Chapter 13
- 3) Rectilinear figures- chapter 14
- 4) Area Theorem-Chapter 16

5) Circle – Chapter 17

MENSURATION

1) Solids – Chapter 21

CO-ORDINATE

1) Co-ordinate Geometry – Chapter 26

2) Graphical Solution – Chapter 27

3) Distance Formula – Chapter 28

First Term Syllabus Included

Third term

Revision

INTERNAL ASSESSMENT

Format for Question Paper:

Full Marks: 80

Section A – 40 Marks (4 X 10) (10=3+3+4 or 4+6)

Section B - 40 Marks - (4 X 10) - Answer 4 Questions Out Of 6

PHYSICS

First Unit

1) Motion in one dimension

2) Laws of Motion

3) Propagation of sound waves

FIRST TERM

1) Pressure in Fluids and atmospheric pressure

2) Up thrust in Fluids, Archimedes' principle and Flotation

3) Force

4) Work, energy and power

5) Revision Chapters of Unit - I

Second Unit

- 1) Current electricity
- 2) Magnetism
- 3) Reflection of Light
- 4) Revision Chapters

Second Term

Full Syllabus – All Term Chapters of Class IX book

CHEMISTRY

1st unit

Dry Heating of Compounds [Pb(NO₃)₂, Zn(NO₃)₂, CuCO₃, ZnCO₃, I₂, NH₄Cl, (NH₄)₂Cr₂O₇

First term

1. Periodic table
2. Chemical bonding
3. Gas laws
4. Hydrogen
5. Atmospheric pressure

2nd unit

1. Action of Dilute H₂SO₄ on Sulphates, Carbonates, Sulphides, and Active Metals
2. Revision of Unit- I Syllabus

Second term

1. All Class 9 Chapters

Annual term

1. Flame test on Na⁺, K⁺, Ca²⁺, Cu²⁺
2. All Class 9 Chapters

BIOLOGY

1st unit

1. Introducing Biology

2. Cell : The Unit of Life
3. Tissues : Plant and Animal Tissue

Mid- Term Exam

1. Respiration in Plants
2. The Respiratory System
3. Waste Generation and Management
4. Five Kingdom Classification
5. Seeds – Structure and Germination
6. The Flower
7. Pollination and Fertilization
8. Skeleton – Movement and Locomotion
9. Skin – “The Jack of All Trades”
10. Aids to Health

2nd unit

1. Nutrition
2. Digestive System

Mock exam

1. Economic Importance of Bacteria and Fungi
2. Health Organization
3. Hygiene – [A Key to Healthy Life]
4. Disease : Cause and Control

Revision of **ENTIRE** Syllabus

HOME SCIENCE:

First term

1. Concept and Scope of Home Science
2. Food and Health
3. Growth and Development of Children from Birth to Five Years

Monthly Test

1. Food and Health

Format :- 10 marks – Compulsory questions (Short questions)

10 marks – Choice in questions (Long questions)

Second Term

1. The Home and its Maintenance
2. Textile Science and Fabric Construction
3. Communication and Extension

Monthly Test

1. Home and its Maintenance

Format :--

1. The paper will be divided into two sections – A and B
2. Section A will be for 40 marks and section B will be for 60 marks
3. Section A will consist of questions requiring short answers and will cover the entire syllabus. There will be no choice of questions
4. Section B will consist of questions requiring longer answers. Candidates will be required to answer four questions. There will a choice of questions.

ECONOMICS

First unit (20 marks)

1. Definition of Economics
2. Basic Terms and Concepts Used in Economics

First term (80 marks)

1. Definition of Economics
2. Basic Terms and Concepts Used in Economics
3. Types of Economics
4. Problem of an Economy
5. Primary Sector – Agriculture
6. Food Security

7. Secondary Sector - Industry

Second unit

1. Primary Sector – Agriculture
2. Industrialization

Second term(80 marks)

1. Industrialization
2. Waste Management
3. Tertiary Sector – Service Sector
4. Poverty and Unemployment
5. Major Reform and Emerging Trends in The Indian Economy
6. First Term Syllabus will be included in Second Term

Third term

1. Revision of First and Second Term (Full Syllabus as per ICSE)

Project assignment – 1 (20 marks)

COMMERCIAL APPLICATIONS

First Unit (20 marks)

1. Introduction to Commercial Organization
2. Sole Proprietorship
3. Partnership

First term(80 marks)

1. Introduction to Commercial Organization
2. Sole Proprietorship
3. Partnership
4. Joint Stock Company
5. Co-operative Society
6. Public Sector Enterprises
7. Nature and Terminology of Accounting

8. Natural Resources
9. Depletion of Resources
10. Practices for Conservation of Resources

Second unit (20 marks)

1. Nature and Terminology of Accounting
2. Functioning of a Commercial Organization

Second term (80 marks)

1. Functioning of a Commercial Organization
2. Communication in a Commercial Organization
3. Ways of Communication
4. Tools of Communication
5. Accounting Records
6. Industrial Pollution
7. First Term Syllabus included in Second Term

Third term – final examination (100 marks)

1. Revision of First Term and Second Term
2. Full Syllabus as per ICSE

Project assignment – 4 (100 marks)

COMPUTER-APPLICATIONS Syllabus / Class : IX / Session : 2020 – 2021

UNIT- I

Chapter 1 : Introduction to Object Oriented Programming Concepts :

i. Principles of Object Oriented Programming (Difference between Procedure Oriented and Object Oriented)

All the four principles of Object Oriented Programming should be defined and explained using real life

examples (Data abstraction, Inheritance, Polymorphism, Encapsulation) .

ii. Introduction to Java – Types of Java Programs – Applets and Applications , Java Compilation Process , Java Source Code , Byte Code, Object Code , Java Virtual Machine (JVM), Features of Java .

Chapter 2 : Elementary Concept of Objects and Classes

Modelling entities and their behavior by objects. A class as a specification for objects and as an Object Factory,

Computation as message passing , Method - Calls between objects (To be done through many examples).

Objects encapsulate state (attributes) and have behavior (methods) Class as a user defined data type.

Chapter 3 : Values and Data Types

Character Sets Unicode ASCII Characters and Codes Escape Sequence Tokens & its Types Literals

Identifiers Naming & Initializing a Variable Assignment Static & Dynamic Initialization Data Types

Characters Type Conversions .

Java Program (Section -B) : Assignment , Input through Parameter/ Function Argument &

Stream Classes , Conditional Constructs using if-else & switch-case , Iteration through Loop, including Nested

Loop(for , while , do while) .

Practical Assignment Evaluation (Nos. 1, 2, 3, 4, 5).

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TERM- I

Chapter 4 : Operators in Java

Expressions Statements Forms of Operators Unary Operators Shorthand Operations
Types of Operators

Output Statements System.out.println() Hierarchy of Operators

Chapter 7 : Conditional Statements in Java

Application of if,if else,if else if ladder

switch-case,default,break , if, if else, if else if, Nested if statement, fall through condition
in switch case

Menu Driven Programs

System.exit(0) - to terminate the program.

Revision of Chapter 1,2,3

**Java Program (Section -B) : Revision of Unit-1(Assignment , Input through Parameter/
Function Argument &**

Stream Classes , Conditional Constructs using if-else & switch-case , Iteration through Loop,
including Nested

Loop) , Menu-driven programs , Printing Series and pattern , Different Types of Numbers.

**Project Assignment 1(Based on Term - I Java Programming Syllabus)and Evaluation of Practical
Assignment (Nos. 6, 7, 8, 9,10).**

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UNIT - II

Chapter 5: Input in Java

Initialization through Parameter during execution, Data before Execution , Introduction
to Packages

Input Streams , Input during Execution using **Scanner Class's** Methods like, nextShort() ,
nextInt(),next(),

nextFloat(), nextLong), nextLine(), next.charAt(0) , Types of Errors , Types of Comments .

Chapter 8 : Iterative Constructs in Java

Definition, Types of looping statements, Entry-Controlled loops [for, while] , Exit Controlled Loop [do while],

variations in looping statements, and Jump statements. Syntax of entry and exit controlled loops, break and

continue Inter Conversion from for – while – do while Finite And Infinite, Delay, Multiple Counter

Variables (initialization and updations) Demonstrate break and continue statements with the help of loops .

Java Program (Section -B) : Menu-driven programs through Object Creation in main() & Method-call) .

Practical Assignment (Nos. 11, 12, 13, 14, 15).

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TERM- II

Chapter 6. Mathematical Library Methods

Introduction to package java.lang [default], methods of Math class

pow(x,y), sqrt(x), cbrt(x), ceil(x), floor(x), round(x), abs(x), max(a,b), min(a,b), random().

Java Expressions – using all the operators and methods of Math class

Chapter 9 : Nested for loops

Introduce Nested Loops through some simple examples.

Demonstration of ***break and continue*** statements with the help of Nested Loops

Theory Revision : Chapters from Unit-I, Unit-II & Term - I

Java Program (Section -B) : Menu-driven programs through Object Creation in main() & Method-call) ,

Function-Overloading , Revision of entire Term - I Java Program Syllabus .

Java Program Revision from Unit-I, Unit-II & Term - I

Project Assignment 2 (Based on Term - II Java Programming Syllabus) and Evaluation of Practical Assignment (Nos. 16, 17, 18, 19 20).

FINAL TERM

Chapter 10 : Computing and Ethics

Ethical issues in Computing . Intellectual property rights . Protection of individual's right to privacy.

Data protection on the internet . Protection Against Spam . Software piracy, cybercrime, hacking .

Protection against malicious intent and malicious code . Good etiquette and ethical practices

Theory Revision from Unit-I, Unit- II, Term-I & Term-II

Java Program (Section -B) : Simple introduction to Character (isLetter(), isUpperCase() , toLowerCase() etc.) &

String class Functions (length(), charAt(), toUpperCase(), equals(), indexOf(), substring(), lastIndexOf()).

Revision from entire Term - I & Term - II Java Program Syllabus .

3. Project Assignment 3 (Based on Term - III Java Programming Syllabus)

Evaluation of Practical Assignment 21, 22, 23, 24, 25.

Distribution of Marks

1. Term Exams : 50% of Written Paper(100 Marks) + 50% of Project / Practical Assignment (100 marks)

Written Paper : Section -A (Compulsory Section 40 Marks)

- a. Objective Questions (One Word, MCQ, Filling in the blank – **1X14= 14 Marks**)
- b. Short Answers (**3 X 3= 9 Marks**)
- c. Calculations , Evaluation , Solution to Expressions according to the rules of the Programming Language (**5 Marks**)
- d. Rewriting expressions / statements as per the Syntax of the Programming Language (**2x2 = 4 Marks**)
- e. Debugging , Finding Output of a given a Code-Snippet (**2X4 = 8 Marks**)

Section - B (Java Program Coding 15 X any 4= 60 marks)

Practical Evaluation : Based on Java Programming Syllabus)

2. Unit Test (10 Marks Theory + 10 Marks Java Prog. Coding)