

CLASS X (2020-21)

ENGLISH LANGUAGE:

TERM I:

- Phrasal verbs
- Essay
- Letter
- Comprehension – Oral, Aural, Written – from Total English
- Grammar – Rewriting sentences, Joining sentences, Prepositions, Tenses – from Total English and ICSE papers
- E-mail
- Notice writing

TERM II:

- ICSE papers to be worked out (Essay, Letter, Comprehension, Grammar)
- Project work – Oral (Recitation/Debate)
- Aural Comprehension
- E-mail
- Notice writing

TERM III:

- ICSE/Test papers to be worked out (Essay, Letter, Comprehension, Grammar)
- Project work – Aural Comprehension

FORMAT

Essay - 20 marks (350-400 words)

Letter - 10 marks

Notice - 5 marks

Email - 5 marks

Comprehension - 20 marks

Grammar - 20 marks

ENGLISH LITERATURE:

TERM I:

Drama:

- The Merchant of Venice – Act III scene 2 to Act IV (UNIT-1)-(Act III Scene II)

Short Stories:

- Little Match Girl
- The blue bead

Poetry:

- Nine gold medals
- Abou Ben Adhem
- I know why the caged bird sings

MOCK:

Drama:

- The Merchant of Venice – Act IV to Act V

UNIT 2- Act IV scene I

Short Stories:

- All summer in a day
- My greatest Olympic prize

Poetry:

- The Patriot

FINAL:

Revision of entire syllabus

Test papers to be worked out

HISTORY:

Unit test:

- The Union Parliament
- Union Executive – President and Vice President

TERM I:

Civics

- The union executive: the president and the vice president
- The union executive: the prime minister, the union cabinet and the council of ministers
- The union judiciary: the supreme court

History

- Factors promoting growth in Nationalism and foundation of the Indian National Congress
- Objectives and methods of struggle of Early Nationalists
- The partition of Bengal and other developments
- The Muslim League
- The National Movement during the First World War
- The First World War
- Rise of dictatorship: fascism in Italy and Nazism in Germany (1939-1945)

Unit test 2:

- the state judiciary- the high courts (Civics)
- United Nations organisations (History)
- Major agencies of the United Nations (History)

TERM II:

Civics

- the subordinate courts

History

- The National Movement (1919-1934)
- The Cripps Mission and the Quit India Movement
- Subhas Chandra Bose and I.N.A
- Independence and Partition of India
- Non-Aligned Movement

GEOGRAPHY:

Unit test 1:

- Soil
- Natural Vegetation

MID TERM:

- Climate
- Soil
- Natural Vegetation
- Minerals and Energy Resources
- Water Resources
- Agriculture
- Agro-based Industry
- Mineral-based Industry

- Transport
- Waste management
- Impact of Waste accumulation
- Need for Waste Management
- Toposheet and maps of India

Unit test 2:

- Safe Disposal of waste management
- Reduce Reuse Recycle
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MOCK EXAM:

- Revision of entire syllabus
- Toposheet and maps of India

MATHEMATICS:

TERM I:

Arithmetic:

- GST(Goods and Service Tax) – Chap 1(UNIT 1)
- Banking (R.D.) – Chap 2
- Shares and Dividend – Chap 3
- Mensuration – Cylinders, Cone and Sphere – Chap 20

Geometry:

- Similarity – Chap 15
- Circles – Chap 17
- Chap 18 – Tangent and Intersecting Chords
- Constructions – Chap 19

Algebra:

- Inequation – Chap 4
- Quadratic Equations and Problems – Chap 5 and 6
- Ratio and Proportion – Chap 7(UNIT 1)
- Matrices – Chap 9
- Remainder and Factor Theorem – Chap 8
- Arithmetic progression – Chap 10
- Geometric progression chap-11

Co-ordinate Geometry:

- Reflection – Chap 12
- Section and mid point Formula – Chap 13

Trigonometry:

- Trigonometrical identities – Chap 21

Statistics:

- Graphical Representation-Chap 23
- Measures of central tendency- Chap 24
- Probability-Chap 25

PROJECT 1

TERM II:

ARITHMETIC:

- Heights and Distance – Chap 22(UNIT 2)

Co-ordinate Geometry:

- Equation of a line-Chap 14(UNIT 2)

Algebra:

Geometry:

- Locus – Chap 16

PROJECT 2

COMPLETE SYLLABUS FOR PRE-ICSE EXAMINATION

TERM III:

Revision

Format of question paper:

Sec A – 40 marks(4x10) compulsory

Sec B – 40 marks(4x10) Answer any 4 questions out of 6

PHYSICS

UNIT I:

- Refraction of light through a plane surface
- Refraction through a lens
- Spectrum
- Sound+ revision chapters

MID TERM :

- Current Electricity
- Household Circuit
- Electromagnetism
- 7 revision chapters

UNIT II:

- **Calorimetry**
- **Radioactivity**
- **Revision chapters**

MOCK:

Full syllabus (All twelve chapters from concise physics part 2)

CHEMISTRY:

1st Unit Test

- Distinguish between cupric oxide and manganese dioxide using Conc.HCl
- Test of Cations (Action of alkalis on certain salts)
- Identification of acids or bases

TERM I:

- Periodic Table and Periodic Properties
- Chemical Bonding
- Acid, Bases and Salts
- Analytical Chemistry
- Mole Concept
- Electrolysis
- Metallurgy(A, B, C, D, E)
- Study of Compounds – Hydrogen Chloride
- Study of Compounds – Ammonia
- Study of Compounds – Nitric Acid
- Study of Compounds – Sulphuric Acid
- Organic Chemistry(Part A,B,C,D)

2nd unit test

- Identification of anions(test for acid radicals)
- Organic Chemistry(E, F)
- Revision of unit 1 and 1st term syllabus

TERM II:

Full syllabus

revision

TERM III:

Revision of all topics of 1st and 2nd terms

BIOLOGY

Unit test:

- Circulatory System
- Cell (From class 9's CONCISE BIOLOGY, PART 1)
- Absorption by roots- the processes involved

TERM I:

- Excretory System
- Human Evolution
- Transpiration
- Photosynthesis
- Structure of chromosomes, cell cycle and cell division
- Genetics- some basic fundamentals
- The endocrine system
- Pollution- a rising environmental problem
- The nervous system
- Sense organs
(revision of first unit test)

Unit test 2:

- Chemical Co-ordination in plants
- The Reproductive System
(Inclusive of first unit test+ mid term exam)

MOCK EXAM:

- Population- the increasing numbers and rising problems

Revision of **ENTIRE** syllabus

COMPUTER APPLICATIONS:

UNIT – I

1. JAVA Theory :

- *Object Oriented Programming* (Object-Oriented Programming Concept ,Elementary concepts of Objects and

Code,

principles

behavior/methods.

Classes, Values & Data-Types, Operators in Java, Input in Java, Types of Java Programs – Applets and Applications , Java Compilation Process , Java Source

Byte Code, Object Code , Java Virtual Machine (JVM), Features of Java,

of OOP (Data abstraction, Inheritance, Polymorphism, Encapsulation) .

Calls between objects,Objects encapsulate state/attributes & have

- *History And Development Of Java*
- *Class as a user defined data type*
- *Mathematical Library Methods*

2. JAVA Program Coding :

- String and Character-Handling
- if-else-else, switch-case, Ternary Operator,
- for()loop, while() loop, do-while {} loop
- Input using Reader Class functions
- Menu-Driven programs and Object-creation, ,

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

TERM – I (SELECTION Examinations)

1. JAVA Theory :

- *Conditional Constructs in Java* (switch-case, Fall-Through condition in switch case, default,break,Nested if statement, Menu Driven Programs, System.exit(0)- to terminate the program.
- *Iterative Constructs in Java* (Simple programs illustrating **all types** of loops- Entry-Controlled loops [for, while], Exit Controlled Loop[do while], Inter Conversion from for – while – do while, use of break and continue statements]
- *Nested for loops*
- *Using Library Classes- String Manipulation* (including String-Array, String class functions : *trim(),startsWith(),endsWith(), toLowerCase(), toUpperCase(), charAt(), length(), lastIndexOf(), indexOf(),*

*concat(), equals(), equalsIgnoreCase(), compareTo(),
replace(),String valueOf() ,*

compareToIgnoreCase(), substring(),)

- *Character-manipulation* (using prescribed Character-class functions e.g., isUpperCase())
- *Arrays - Single-Dimensional Array* (Definition and Declaration of an array, Types of Arrays, Initialization and accepting Data into an array, Accessing Array Elements, Handling and arranging array-elements in various ways, Sorting Techniques, Searching Techniques as per scope of the syllabus)

Theory Revision : Chapters from Unit-I .

2. JAVA Program Coding :

- Single Dimension Array
- String and Character-Handling
- if-else-else, switch-case, Ternary Operator,
- for()loop, while() loop, do-while {} loop
- Input using Reader Class functions
- Menu-Driven programs and Object-creation, ,
- Character & Math Class functions(Library Classes)
- Formal and actual parameters
- Pure and Impure Functions
- Method-Over loading & Constructor Overloading

Evaluation of ICSE Project / Practical Assignment (Nos. 6, 7, 8, 9, 10).

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## **UNIT - II**

#### **1. JAVA Theory :**

- Class as a Basis of all Computation (With an emphasis to : 'Class as Abstraction for a set of Objects', Class as an Object-Factory, Primitive and Composite Data-Types, Objects as instances , Real life Examples for explanatining the concept of Class & Object) .
- Basic Input / Output ( Scanner And Printer Classes )

#### **2. JAVA Program Coding :**

- Single Dimension Array
- String Handling using String Class Library-Methods

## StringBuffer Functions

- Decision-Making using if-else-else, switch-case, Ternary Operator,
- for()loop, while() loop, do-while {} loop
- Input using Reader Class functions, Arguments, Scanner Class
- Menu-Driven programs
- Practical Assignment Evaluation (Nos. 11,1 2, 13, 14, 15).

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TERM – II (Pre-mock Examinations)

1. JAVA Theory :

- Double Dimension Array (Definition and Declaration of an array, Printing the DDA in Matrix Format,
Finding & Printing Sum of each Row, Sum of each Column , both the Left &
Right Diagonals ,Initialization and accepting Data into an array, Accessing Array Elements).
- Encapsulation And Inheritance (Access Specifiers – its Scope & Visibility , Scope of a Variable- Class- Variable, Instance- Variable, Argument- Variable, Global- Variable, Local- Variable) .
- Functions / Methods (Concept of Pure, Impure, static , non-static methods, method over-loading)
- Class As A User-Defined Type
- Constructors
- General Prog. And Decision Making In Java
- Iteration Through Loops (Including Nested form)

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

2. JAVA Program Coding : Entire ICSE syllabus

- Single Dimension Array
- Double Dimension Array
- String Handling using String Class Library-Methods
StringBuffer Functions
- Decision-Making using if-else-else, switch-case, Ternary Operator,
- for()loop, while() loop, do-while {} loop
- Input using Reader Class functions, Arguments, Scanner Class
- Menu-Driven programs

- Object-creation, ,
- Character & Math Class functions
- Formal and Actual parameters
- Pure and Impure Functions
- Method-Over loading
- Constructor Overloading

3. Evaluation of ICSE Project / Practical Assignment (Nos. 16, 17, 18, 19, 20).

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TERM – III

1. JAVA Theory : Entire ICSE syllabus

2. JAVA Program Coding : Entire ICSE syllabus

3. Evaluation of ICSE Project / Practical Assignment (Nos. 21 , 22).

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**Distribution of Marks**

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

Written Paper :

1. Section -A : All Questions Compulsory (40 Marks)
2. Section -B : Attempt any Four out of 6 Questions)-- Java programs (15X4=60 Marks)

Practical Evaluation : Based on Java Programming Syllabus]

ICSE Project Assignment / Practical Evaluation – 100 Marks

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

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ECONOMICS:

TERM I:

- The Productive Mechanism
- Land
- Labour
- Efficiency of labour
- Capital and Capital Formation
- Entrepreneur
- Theory of demand
- Elasticity of demand
- Theory of supply
- Elasticity of supply
- Scope of public finance
- Public Revenue
- Public Expenditure

TERM II:

- Public debt
- Money
- Inflation
- a) Banking- Commercial bank
- b) Banking-Central bank
- Consumer Awareness

MOCK:

Full syllabus as per ICSE norms

There will be two sections. Section A (compulsory) will consist of four questions each question is divided into five sub parts of 2 marks each.

Section B will consist of six questions each question will be divided into two parts each carries 5 marks.

HOME SCIENCE:

TERM I: home furnishings

Unit 1:

- Colour
- Fabrics for Furnishings
- Lighting in the house
- Space organizing in the kitchen

Unit 2: management of money

- Budgeting and savings
- Fundamentals of banking

Unit 6:

- Laundering
- Laundry Materials

Unit 7: consumer education

- Consumer Education
- Wise Buying
- Consumer Rights
- Food Adulteration

Second term:

Unit 3: growth and development during middle childhood

- Milestone of development
- Personal hygiene
- Emotional and behavioral concerns
- Role of the family peer growth and school

Unit 5:

- Balanced diet
- Meal planning for the family
- Storage and preservation of food

Commercial Applications

Unit test:

- Markets and Marketing
- Marketing Mix-4P'S

First Term

- Markets and Marketing
- Marketing Mix-4P'S

- Advertising and Brand Promotion
- Sales and Selling Process
- Importance of human resources
- Recruitment, selection and training
- Issues on the environment

Unit test 2:

- Recruitment, selection and training
- GAAP
- Financial accounting and reporting

Second Term

- Generally accepted accounting principles(GAAP)
- Financial accounting and reporting
- Banking and bank transactions
- Fundamental concepts of cost
- Public Relations

First term syllabus included

as per ICSE syllabus

HINDI

Books

- साहित्य सागर
- एकांकी संचय
- सरस हिन्द व्याकरण

Format

निबंध – 15 अंक

पत्र -7 अंक

अपठन गद्यांश -10 अंक

व्याकरण -8 अंक(As per the ICSE Syllabus)

व्याकरण-

- बिलोम सब्द
- पर्यावाची सब्द
- अनेक सब्दो के लिए एक सब्द
- भाववाचक संज्ञा
- विशेषण
- तत्सम तटवाव
- मुहावरे
- लिंग परिवर्तन
- वचन
- निर्देश अनुसार वाक्या परिवर्तन
- शुद्ध करो

First term

साहित्य सागर

- सन्धाय
- जामुन का पेड़

एकांकी संचय

- सुखी डाली

Class 9 first term syllabus included of both the books

Second term

साहित्य सागर

- भेड़ और भेड़िए
- दो कलाकार

एकांकी संचय

- महाभारत की एक साँझ
- दीपदान

Class 9 second term syllabus included of both the books

Third term (mock)

साहित्य सागर

Revision of entire syllabus of class 9 and 10

एकांकी संचय

Revision of entire syllabus of class 9 and 10

BENGALI

FIRST TERM

চাঁদের পাহাড়- ৯ ,১০,১১,১২-অধ্যায়

সংকলিত-নীল মানুষের কাহিনী, গন্ধটা খুব সন্দেহজনক

ব্যাকরণ-বাগধারা(অরণ্যে রোদন - হিতে বিপরীত),এক কথায় প্রকাশ(অগ্রজ-সুচিস্মিতা), পূর্বপাঠ সমস্ত
ব্যাকরণ,রচনা,ধারণা,চিঠি

1st unit- ৯ ,১০,১১ অধ্যায়, সংকলিত- নীল মানুষের কাহিনী

SECOND TERM

চাঁদের পাহাড় - ১৩,১৪ অধ্যায়

সংকলিতা – লোকটি

REVISION OF CLASS IX SECOND TERM

ব্যাকরণ- পূর্বপাঠ সমস্ত ব্যাকরণ, রচনা,ধারণা,চিঠি

2nd unit- চাঁদের পাহাড় - ১৩,১৪ অধ্যায় সংকলিতা – লোকটি

MOCK:

Full syllabus class 9 and 10