

CLASS X (2019-2020)

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 to Act IV Scene I(half)

Short Stories:

- Little Match Girl
- My Greatest Olympic prize

Poetry:

- Nine gold medals
- Abu Ben Adhem

TERM II:

Drama:

- The Merchant of Venice – Act IV(Scene1) to Act V

Short Stories:

- All summer in a day
- Old man at the bridge

Poetry:

- I Know why the Caged Bird Sings
- The Patriot

TERM III:

Revision of entire syllabus

Test papers to be worked out

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 सब्दों 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

चाँदेर पाहाड़-१०,११,१२-अध्याय

संकलित-नील मानुषेर काहिनी, गन्कटा खुब सन्देहजनक

ब्याकरण-वागधारा, एक कथाय प्रकाश, उपसर्ग, छेद ओ यति चिह्नेर ब्यवहार, वाक्य ओ वाच्य परिवर्तन , पूर्वपाठ
समस्त ब्याकरण, रचना, धारणा, चिठि

SECOND TERM

चाँदेर पाहाड़ - १७,१८ अध्याय

संकलिता – लोकटि

REVISION OF CLASS IX SECOND TERM

ब्याकरण- पूर्वपाठ समस्त ब्याकरण, रचना, धारणा, चिठि

THIRD TERM

चाँदेर पाहाड़ -सम्पूर्ण

संकलिता – पूर्वपाठ समस्त गन्न

ब्याकरण- पूर्वपाठ समस्त ब्याकरण, रचना, धारणा, चिठि

HISTORY:

TERM I:

Civics

- The Union Parliament
- Union Executive – President and Vice President
- Prime Minister
- Union Judiciary (Supreme Court)

History

- The First War of Independence (Revolt of 1857)
- Factors promoting growth in Nationalism
- Programme and Achievements of Early Nationalists
- Rise of Assertive Nationalism
- The partition of Bengal and its impact
- The Muslim League its formation and objectives
- The National Movement (1915-1917)
- The First World War
- The Rise of Fascism and Nazism
- The Second World War

TERM II:

Civics

- High Court and Subordinate Courts

History

- The National Movement (Non Co-operation Movement)
- Civil Disobedience Movement
- Quit India Movement
- Subhas Chandra Bose – I.N.A
- Partition of India
- Non Aligned Movement

TERM III:

Revision of all chapters

GEOGRAPHY:

TERM I:

- Location, Extent of Physical Features (maps)

- Natural Vegetation
- Water Resources
- Climate
- Soil
- Minerals and Energy Resources
- Agriculture
- Agrobased Industry
- Toposheet and maps of India

TERM II:

- Transport
- Mineral based Industry
- Revision of First term syllabus
- Toposheet and maps of India

TERM III:

- Waste management
- Impact of Waste accumulation
- Need for Waste Management
- Safe Disposal of waste
- Reduce Reuse Recycle
- Revision of First and Second Term Chapters
- Toposheet and maps of India

MATHEMATICS:

TERM I:

Arithmetic:

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

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
- Matrices – Chap 9

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:

- Cylinder, cone, sphere – Chap 20(e-g)
- Heights and Distance – Chap 22

Co-ordinate Geometry:

- Equation of a line-Chap 14

Algebra:

- Remainder and Factor Theorem – Chap 8
- AP and GP – Chap 10 and 11

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

TERM I:

- Force
- Work, Power and Energy
- Machines
- Refraction of light through a plane surface
- Refraction through a lens
- Spectrum
- Calorimetry
- Sound

Term II:

- Current Electricity
- Household Circuit
- Electromagnetism
- Radioactivity

All chapters of Term I

TERM III:

All chapters of Term I and Term II(12 chapters)

CHEMISTRY:

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)

Practical

- Action of alkalis on certain salts
- Identification of colourless solutions as acids or bases
- Distinguish between black cupric oxide and black manganese dioxide

TERM II:

- Organic Chemistry(B, C, D, E, F)

Practical

- Identification of anions
- Identification of solids

Revision of all topics of 1st term

TERM III:

Revision of all topics of 1st and 2nd terms

BIOLOGY

TERM I:

- Cell (From class 9's CONCISE BIOLOGY, PART 1)
- Circulatory System
- Excretory System
- Evolution
- Pollution
- Absorption of water by roots
- Transpiration
- Photosynthesis
- Cell division and structure of chromosome
- Genetics
- Nervous System
- Sense organs

TERM II:

- Chemical Co-ordination in plants
- The Endocrine System
- The Reproductive System
- Population

Revision of First Term.

TERM III:

Revision of First and Second Term.

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

TERM III:

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.

COMPUTER APPLICATIONS:

TERM – I (SELECTION Examinations)

1. JAVA Theory :

- **Object Oriented Programming** (Object-Oriented Programming Concept ,Elementary concepts of Objects and Classes, Values & Data-Types, Operators in Java, Input in 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, principles of OOP (Data abstraction, Inheritance, Polymorphism, Encapsulation) .

Calls between objects, Objects encapsulate state/attributes & have behavior/methods.

History And Development Of Java

Class as a user defined data type

Mathematical Library Methods

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(),*

length(), lastIndexOf(),

compareTo(), replace(),

)

endsWith(), toLowerCase(), toUpperCase(), charAt(),

indexOf(), concat(), equals(), equalsIgnoreCase(),

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)

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

ICSE Project Assignment 1

TERM – II (Pre-mock Examinations)

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) .
- 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).
- Basic Input / Output (Scanner And Printer Classes)

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Class-10 Computer Applications Syllabus (2019-2020) Page 2....

- 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 overloading)
- Class As A User-Defined Type
- Constructors
- General Prog. And Decision Making In Java

- Iteration Through Loops (Including Nested form)

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

1. ICSE Project Assignment 2



TERM – III (Pre-ICSE Mock Examinations)

1. JAVA Theory : Entire ICSE syllabus

2. JAVA Program Coding : Entire ICSE syllabus

3. ICSE Project Assignment 3

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Distribution of Marks

- 1. Section -A : All Questions Compulsory (40 Marks)**
- 2. Section -B : Attempt any Four out of 6 Questions)-- Java programs (15X4=60 Marks)**
- 3. ICSE Project Assignment – 100 Marks**

HOME SCIENCE:

TERM I:

- Colour
- Fabrics for Furnishings
- Lighting in the house
- Space organizing in the kitchen
- Budgeting and savings
- Fundamentals of banking
- Milestone of development
- Physical growth and development
- Personal hygiene
- Emotional and behavioral concerns
- Role of the family peer growth and school

TERM II:

- Balanced diet
- Meal planning for the family
- Storage and preservation of food
- Laundering
- Laundry Materials
- Consumer Education
- Wise Buying
- Consumer Rights
- Food Adulteration

TERM III:

- Revision of Entire Syllabus

Commercial Applications

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

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

Third Term

Entire syllabus as per ICSE