

**St. Patrick's Higher Secondary School, Asansol**

**CLASS - IX**

**SYLLABUS FOR THE SESSION: 2024-25**

**ENGLISH LANGUAGE**

**Textbook–Total English Book: 9**

**MIDTERM**

1. Composition (Word Limit 300-350) (Any 1 out of 5) (20 marks)

- a. Narrative
- b. Descriptive
- c. Argumentative
- d. Short Story
- e. Picture Composition

2. Letter Writing (10 marks)

(Attempt any one)

- a. Informal Letter
- b. Formal Letter

3. Notice Writing (5 marks)

Email Writing (5 marks)

4. Comprehension (20 marks)

- a. Meanings (3 marks)
- b. Question and Answer (9 marks)
- c. Summary (8 marks)

5. Grammar (20 marks)

- a. Preposition
- b. Verbs
- c. Joining Sentences
- d. Transformation of Sentences

**FINAL TERM**

**Same as Mid Term**

**FORMAT OF QUESTION PAPER**

**ENGLISH LANGUAGE**

**Time: 2 hours**

**Full Marks: 80**

1. Composition–300 to 350 words [20 Marks]  
 Anyone of the five options  
 (Narrative, Descriptive, Argumentative, Short Story and Picture Composition)
2. Letter Writing (Informal and Formal) [10 Marks]
  - (a) Informal  
 Letter Or
  - (b) Formal Letter
3. (a) Notice Writing: Candidates will be given a specific situation and will be required to write the text for a notice based on given directions [5 Marks]  
 (b) E-mail writing on the same content as the notice [5 Marks]
4. Comprehension [20 Marks]
  - (a) Meanings [3 Marks]
  - (b) Questions [2+2+2+2+1=9 Marks]
  - (c) Précis [8]
5. Grammar [20 marks]
  - (a) Fill in the blanks with correct form of the words. [8x½=4 marks]
  - (b) Fill in the blanks with appropriate words. [8x½=4 marks]
  - (c) Join the following sentences. [4 x 1 = 4 marks]
  - (d) Do as Directed [8 x 1 = 8 marks]

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## ENGLISH

### LITERATURE MID-

#### TERM

#### Text Books:

Treasure Chest Evergreen Publications Julius Caesar Evergreen

Drama: Julius Caesar Act 1

#### Prose

1. Bonku Babu's Friend – Satyajit Ray
2. Oliver Asks for More- Charles Dickens
3. The Model Millionaire Oscar Wilde

#### Poetry:

1. A work of Artifice – Marge Piercy
2. Skimble shanks: The Railway Cat- T.S. Eliot
3. I Remember, I Remember- Thomas Hood

**FINAL TERM**

Drama: Julius Caesar-Act 2.Prose

- 4. The Home-coming
- 5. The Boy Who Broke the Bank

Poetry:

- 4. A Doctor's Journal Entry for August 6, 1945
- 5. Night Mail

#First Term syllabus to be included in Final Term

**FORMAT OF QUESTION PAPER ENGLISH LITERATURE**

**Time: 2 Hour**

**Full Marks: 80**

There will a total of 9 extract-based questions covering the three prescribed textbooks:  
Section A(Drama), Section B (Poetry), and Section C (Prose)

5 questions to be attempted in all-one questions from each of the sections A, B and C and any two otherquestions.

Section A–(Drama)  
Julius Caesar-Shakespeare

3 sets of extract-based questions will be set. Each set will be of 16 marks. (3+3+3+3+4)

Section B – (Poetry)

3setsofextract–based questions will be set. Each set will be of 16 marks.

(3+3+3+3+4)Section C (Prose)

3 sets of extract- based questions will be set. Two sets of questions will be of 16 marks each with thebreakup of marks (3+3+3+3+4) and the last set of questions in Prose will be of 16 marks and the breakup of marks for this question will be (4+4+8)

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## **HISTORY AND CIVICS**

### **MIDTERM**

**TEXTBOOK:** Total History for class-9: Morning Star Publication

#### **SECTION-A (CIVICS)**

- 1) Chapter-1 Our Constitution.
- 2) Chapter-2 Salient Features of the Constitution-1.
- 3) Chapter-3 Salient Features of the Constitution-2.

#### **SECTION-B (HISTORY)**

- 1) Chapter-1 The Harappan Civilization.
- 2) Chapter-2 The Vedic Period.
- 3) Chapter-3 Jainism and Buddhism.
- 4) Chapter-4 The Mauryan Empire.
- 5) Chapter-5 The Sangam Age.
- 6) Chapter-6 The Age of the Guptas.
- 7)

### **FINAL TERM**

#### **SECTION-A**

##### **(CIVICS)**

1. Chapter-4 Elections.
2. Chapter-5 Local Self-Government-Rural
3. Chapter-6 Local Self-Government-Urban

#### **SECTION-B (HISTORY)**

1. Chapter-7 Medieval India-(A) The Cholas.
2. Chapter-8 Medieval India-(B) The Delhi Sultanate.
3. Chapter-9 Medieval India-(C) The Mughal Empire.
4. Chapter-10 Medieval India-(D) Composite Culture.
5. Chapter-11 The Modern Age in Europe-(A) Renaissance.
6. Chapter-12 The Modern Age in Europe-(B) Reformation.
7. Chapter-13 The Modern Age in Europe-(C) Industrial

Revolution.

8. Non-Aligned Movement.

**(Note: The First Term Syllabus will be included in the Final examination.)**

Marking Pattern: *There will be **one** paper of **two** hours duration carrying 80 marks and an Internal Assessment of 20 marks.*

*The paper will be divided into **two** parts, Part I and Part II.*

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## **GEOGRAPHY**

The question paper will consist of Part I and Part II. Part I

(compulsory) will contain three questions.

Question 1 will consist of questions based on World Map.

Question 2 will consist of short answer questions from the entire syllabus and Question 3 will be MCQ's.

Part II -Candidates will be required to choose any five questions out of nine questions.

Candidates will be expected to make the fullest use of sketches, diagram, graphs and charts in their answers.

Questions may require answers involving the interpretation of photographs of geographical interest.

### **MIDTERM:**

Unit 1- Our World

1. Earth as Planet
2. Geographic Grid- Latitudes and Longitudes
3. Rotation and Revolution

Unit 2- Structure of the Earth

2. Earth's structure
3. Landforms of the Earth
4. Rocks
5. Volcanoes
6. Earthquakes
7. Weathering
8. Denudation

Unit 6 - Natural Regions of the world

20. Natural Regions of the world.

Map Work-World Map

[Total Geography: pgs.185-192]

On an outline map of the World, candidates will be required to locate, mark and name the following:

1. The major Natural Regions of the world - Equatorial, Tropical Monsoon, Tropical Deserts,

Mediterranean type, Tropical grasslands, Temperate grasslands, Taiga and Tundra.

2. The Oceans, Seas, Gulfs and Straits - all Major Oceans, Caribbean Sea, North Sea, Black

Sea, Caspian Sea, South China Sea, Mediterranean Sea, Gulf of Carpentaria, Hudson Bay,

Persian Gulf, Gulf of Mexico, Gulf of Guinea, Bering Strait, Strait of Gibraltar, Strait of Malacca.

3. Rivers Mississippi, Colorado, Amazon, Paraguay, Nile, Zaire, Niger, Zambezi, Orange, Rhine,

Volga, Danube, Murray Darling, Hwang Ho, Yangtse Kiang, Indus, Ganga, Mekong, Irrawaddy,

Tigris and Euphrates.

4. Mountains - Rockies, Andes, Appalachian Alps, Himalayas, Pyrenees, Scandinavia

Highlands, Caucasus, Atlas, Drakensburg, Khingan, Zagros, Urals and Great Dividing Range.

5. Plateaus - Canadian Shield, Tibetan Plateau, Brazilian Highlands, Patagonian Plateau, Iranian

Plateau and Mongolian Plateau.

### **FINAL TERM**

Unit 3-Hydrosphere

11. Hydrosphere

e Unit 4-

Atmosphere

12. Composition and Structure of the Atmosphere

13. Insolation

14 Atmospheric Pressure and kinds

15. Humidity Unit 5- Pollution

16. Pollution

17. Sources of Pollution

18. Effects of Pollution

19. Preventive Measures

#Map work - World Map (Map work similar to First-Term)#First Termsyllabus included in the final term.

**Question paper format (fullmarks80)**

Part I compulsory (30 marks)

1. Answer in brief (2×5=10)
2. Map work (1×10=10)
3. Choose the correct option (1×10=10)

PART II (50 MARKS)

Answer any 5 questions out of 9. Each set of questions carrying 10 Mark's (2+2+3+3)

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**HINDI**

**2<sup>ND</sup>LANGUAGE**

**MID TERM**

**SECTION A (LANGUAGE)**

**: 40 Marks**

**TEXT BOOK: SARAS HINDI VYAKARAN**

1. Essay (250 words) : 15  
Marks
2. Letter (Formal & Informal- 100 -120 words) : 07  
Marks
3. Comprehension : 10  
Marks
4. Grammar: : 08  
Marks
  - a) Adjective : Page no 237 to 238
  - b) Abstract Noun. : page no. 221 & 222
  - c) Synonyms. : Page no. 251 to 253
  - d) Opposites. : page no. 259 to 262
  - e) Ashuddh Shabd. : page no .289 to. 290
  - f) Idioms. : page no .311 to 313
  - g) One word for many. : page no.273 to 275

h) Do as Directed

**SECTION B (LITERATURE)**

40

MarksTEXT BOOK: SAHITYA SAGAR

**SHORT STORIES:**

Chapter 1: Baat Atthanni Ki

Chapter 2: Kaki

Chapter 3: Mahayagya Ka Puraskar

**POEM:**

Chapter 1: Sakhi

Chapter 2: Girdhar

Kundaliya

Chapter 3: Swarg Bana

Sakte Hain

**FINAL TERM**

SECTION A (LANGUAGE) 40

MarksTEXT BOOK: SARAS HINDI

**VYAKARAN**

1. Essay (250 Words) : 15 Marks
2. Letter (Formal & Informal )(100-120 words) : 07 Marks
3. Comprehension : 10 Marks
4. Grammar: : 08 Marks
  - a) Adjective
  - b) Abstract Noun: : page no. 223 & 224
  - c) Synonyms. : page no. 254 to 256
  - d) Opposites. : page no. 263 to 265
  - e) Ashudh Shabd: : page no. 291 to 292
  - f) Idioms. : page no . 314 to 316
  - g) One word for many : page no. 276 to 277
  - h) Do as Directed

**SECTION B (LITERATURE) :40 Marks**

**TEXTBOOK: SAHITYA SAGAR**

**SHORT STORIES**

Chapter 4: Netaji Ka Chashma

Chapter 5: Apna Apna Bhagya

Chapter 6: Bade Ghar Ki Beti

(Questions will come from chapters 1 to 6)



**POEM:**

Chapter 4: Wah Janmbhumi Meri

Chapter 5: Megh Aaye

Chapter 6: Sur Ke Pad

(Questions will come from chapters 1 to 6)

**FORMAT OF HINDI QUESTION PAPER**

**Time: 3hrs**

**FULL Marks: 80**

There will be one paper of **THREE** hours duration carrying 80 Marks The paper will be divided into **TWO** Section:-

**Section A : Language 40 Marks**

**Section B :Literature 40 Marks**

**SECTION A [40 Marks] LANGUAGE**

This section will consist of **FOUR** questions, all of which will be compulsory.

.1. Composition: [15 Marks]

one composition of 200 to 250 words approximately 2. Letter ( Informal & Formal) : [7 Marks] –

candidates will be required to write a letter from a choice of TWO subjects.

.3 Comprehension : [ 2×5=10 Marks]

4. Grammar (Multiple Choice Questions): [8Marks] – As Per ICSE Syllabus

**SECTION B [ 40 Marks]**

**LITERATURE**

- Candidates will be required to answer **FOUR** questions, choosing atleast one question from prescribed text book:-  
• **Sahitya Sagar - Short stories & Poems**
- **SIX** sets of questions will be set — 3 sets of questions will set from (Sahitya Sagar-Short Stories) and 3 sets of questions will set from ( Sahitya Sagar- Poem)
- A set of questions carries 10 Marks—[ 2+2+3+3=10]

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**BENGALI 2<sup>ND</sup> LANGUAGE**

**Mid Term:-**

Language-40 marks

1. Essay writing ---- 15marks

2. Letter writing -----7marks

3. Comprehension--5×2=10marks

4. Grammar ----- 8 marks (MCQ)

- a) Baanaan shuddha
- b) Bagdhara
- c) Ek kothay prokash(1-150)
- d) Bakya poribartan
- e) Prai samochharito vinarthak sabdo
- f) Sadhu o Chalit bhasha

Literature-40 marks (attempt 4 questions from prose and novel. Each question carries 10 marks)

$10 \times 4 = 40$

Prose (Sankalita):-

- 1) Ginni
- 2. Lalu

Novel (Chander pahar):-Chapter:-

1,2,3,4

Final term:-

Language-40 marks

- 1. Essay writing ---- 15 marks
- 2. Letter writing -----7 marks
- 3. Comprehension-- $5 \times 2 = 10$  marks
- 4. Grammar ----- 8 marks (MCQ)

- a) Ek kathay prokash (151-300)
- b) Uposargo o anusargo (preffix and suffix)
- c) Pratyay

Including Mid Term syllabus

Literature-40 marks (attempt 4 questions from prose and Novel. Each question carries 10 marks)

$10 \times 4 = 40$

Prose (Sankalita):-

- 1. Baamaa
- 2. Canvasar

(Including mid-term

syllabus)Novel (Chander

pahar):-

Chapter:-5, 6, 7 (Including mid-term syllabus)

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## Mathematics

**Book: UNDERSTANDING ICSE MATHEMATICS CLASS IX**

by M.L. AGGARWAL

### MIDTERM

Chapter1. Rational and Irrational Numbers

Chapter 2. Compound Interest

Chapter 3.Expansions

Chapter4.Factorisation

Chapter5.Simultaneous Linear

Equations

Chapter 6. Problems in Simultaneous Linear

Equations

Chapter 7. Quadratic Equations

Chapter8. Indices

Chapter9. Logarithms

Chapter 10. Triangles

Chapter 11. Mid-Point

Theorem

Chapter 20. Statistics

## **FINAL TERM**

Chapter 12. Pythagoras Theorem

Chapter 13. Rectilinear Figures

Chapter 14. Theorems on Area

Chapter 15. Circle

Chapter16.Mensuration

Chapter17.Trigonometrical Ratios

Chapter18. Trigonometrical Ratios of Standard Angles

Chapter 19. Coordinate Geometry

**NOTE: FINALTERM** will contain the entire syllabus from **MIDTERM**.

## **QUESTION PAPER**

**FORMAT FULL MARKS:80**

**TIME: Two and half an hour.**

**SECTION A (COMPULSORY)–**

**40MARKS**

**Question 1:**(15 MCQ questions with four options in each. Each MCQ carries one mark).

**1x15=15marks.**

**Question 2:** Three questions of four mark each. **3x4=12marks.**

**Question 3:** Three questions. **2 x 4 + 1 x 5 = 13 marks.**

**SECTION B (Answer any four complete questions)–40MARKS**

**Question 4 to Question 9 (six questions) –Each question has 3 subparts: 3+3+4=10 marks for each question.**

**Question 10:** One question with two sub parts, either **5+5=10** marks OR **6+4=10** marks.

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**PHYSICS**

**BOOK: ICSE Concise Physics for class IX (Selina Publication)**

**MIDTERM:**

Ch1.) Measurement & Experimentation

Ch2.) Motion in one Dimension

Ch 3.) Laws of Motion

Ch 4.) Pressure in fluids and atmospheric pressure

Ch.7.) Reflection of light

**FINAL TERM:**

Ch 5.) Up thrust in fluids, Archimedes Principle and flotation Ch 6.) Heat and Energy

Ch.8) Propagation of Sound Waves

Ch.9) Current Electricity

Ch10.) Magnetism

[MID-TERM CHAPTERS ARE INCLUDED IN FINAL TERM EXAMINATION]

**QUESTION PAPER FORMAT**

TIME: 2 Hours

FullMarks: 80

Candidates are required to answer all questions from SECTION A and any 4 questions fromSECTION B

SECTION A ( 40 marks )

14 MCQ of 1 mark each.

1 question of 3 marks.

11 questions of 2 marks each.

SECTION B ( 40 marks )

Six questions of 10 marks each of ( 3 + 3 + 4 ) format

(Application-based questions are also included in Section A and Section B ).

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## **CHEMISTRY SYLLABUS**

**Book-Latest edition of Concise Chemistry class 9. Selina publication (NEP 2020 aligned)**

### **MIDTERM**

1. LANGUAGE OF CHEMISTRY
2. CHEMICAL CHANGES AND REACTIONS
3. STUDY OF GAS LAWS
4. ATOMIC STRUCTURE AND CHEMICAL BONDING
5. PERIODIC TABLE

### **FINAL TERM**

1. WATER
2. Hydrogen
3. ATMOSPHERIC POLLUTION
4. PRACTICAL WORK

Final term includes a Full syllabus

Periodic Table and chemical bonding from class10will be taught but not to be tested

Question pattern-

Section A (40marks) Compulsory Section-15marks MCQ+25 marks Objective type questions

Section B(40 marks) Answer 4 out of 6 questions. Each question of 10 marks as per ICSE pattern(2+2+3+3 or 3+3+4)

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## **BIOLOGY**

### **MID-TERM**

- 2: CELL: THE UNIT OF LIFE
- 3: TISSUES: PLANT AND ANIMAL TISSUES
- 4: THE FLOWER
- 5: POLLINATION AND FERTILIZATION
- 6: SEEDS-STRUCTURE AND GERMINATION
- 7: RESPIRATION IN PLANTS
- 8: FIVE KINGDOM CLASSIFICATION
- 9: ECONOMIC IMPORTANCE OF BACTERIA AND FUNGI
- 10: NUTRITION
- 11. DIGESTIVE SYSTEM

### **FINAL TERM**

- 12: SKELETON–MOVEMENT AND LOCOMOTION
- 13: SKIN–‘THEJACKOFALLTRADES’
- 14: THE RESPIRATORY SYSTEM
- 15: HYGIENE–[A KEY TO HEAL THE LIFE]
- 16: DISEASES: CAUSE AND CONTROL
- 17: AIDS TO HEALTH
- 18: HEALTH ORGANIZATIONCH.
- 19: WASTE MANAGEMENT

Note: All chapters of the Mid Term are included in the Final termFormat of the Question Paper

Section I– 40Marks– Compulsory

i) Objective (MCQ)-15marks

ii) Short answer questions –25marksSection II – 40 Marks

Answer any 4 questions out of 6 Distribution of marks– (1+2+2+2+3)

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## **ECONOMICS**

**AS PER THE SCOPE OF ICSE SYLLABUS: 2024-25**

**Books) ICSE ECONOMICS PARTI (For class IX) -J.P.Goel**

### **General guidelines**

1. There will be one paper of two hours duration carrying 80 marks and an Internal Assessment of 20 marks.
2. The paper will be divided into two sections A and B.
3. Section A will consist of compulsory questions including short answers and will cover the entire syllabus.
4. Section B will consist of questions, that will include detailed answer.
5. There will be a choice and candidates will be included to answer four questions from this section.

### **Question pattern Section A (40 marks)**

#### **Compulsory Section:**

- 1) 16 questions (M C Q -Each question carrying one mark each)
- 2) 12 questions. (E a c h question carrying 2 marks) including short answer questions. (Total  $12 \times 2 = 24$  marks)

#### **Section B (40 marks)**

**There will be a total of 6 long questions. Each question carries 10 marks with two sub-parts of 5 marks each and candidates will be required to answer 4 long questions. (Total 40 Marks).**

### **MIDTERM EXAM:**

Introduction to Economics

1. Definition of Economics according to Adams, Robbins, Keynes and Samuelson. Self-explanatory.
2. Micro & Macro Economics. Meaning, difference and examples only
3. Types of activities. Economic and non-economic activities: meaning and examples; the difference between Economic and non-economic activities
4. Sectors in an Economy. Primary, secondary and tertiary sectors: meaning and examples along with; differences
5. Basic Economic terms. Meaning of the following economic terms: Wants, Goods, services, wealth, utility, production, consumption, sustainable consumption, factors of production, market, price, value, income, saving, wealth, welfare, economy

6. Entities. Government sectors, firms, households, foreign sector: meaning only.

## **2 Types of Economies**

- (i) On the basis of Nature.

Capitalist Economy, Socialist Economy, Mixed Economy – with reference to India (meaning and differences).

- (ii) On the basis of Development.

Developed Economy and Developing Economy: meaning and differences.

- (iii) Economic growth and development. Meaning and differences.

## **3. Problems of an Economy**

- (i) Limited availability of Resources. Meaning and types of resources with examples; meaning and examples of limited resources; an understanding of the basic economic problem - Human wants are unlimited in relation to limited resources that have alternative uses; need for efficient use of resources (brief understanding with an example.)

(ii) Central problems of an economy. What to produce? How to produce? For whom to produce? - A brief understanding with examples

## **4. The Indian Economy: A Study**

- (i) Primary Sector: Agriculture - contribution of agriculture; problems of Indian agriculture; government measures to increase agricultural production; Green revolution and its impact; food security.
- (a) Agriculture and allied activities: meaning; contribution of agriculture to employment, industry, trade and self-sufficiency in food production: a understanding of the above
- (b) Problems of Indian Agriculture: a brief understanding of: limited use of technology, fragmentation of land holdings, dependence on monsoon, lack of rural credit facilities, inadequate storage & marketing facilities.
- (c) Government measures to improve agricultural production: Use of High Yielding variety seeds, use of fertilizer and insecticides, better irrigation facilities, Adoption of technology, Setting up of agricultural research centers and institutes, Provision & expansion of rural credit facilities. Provision of better storage and marketing facilities: a brief understanding of the above.



(d) Green Revolution: meaning and its positive impacts.

(e) Meaning of Food Security; role of Food Corporation of India (FCI).

**FINAL Terms:**

(ii) Secondary: Industry: meaning and types; adverse impacts of industrialization and measures to overcome adverse impacts.

(a) Meaning of Industry; a brief understanding of the interdependence of Agriculture and Industry.

(b) types of Industries; large-scale and medium-scale Industries. Meaning, features and examples only. Cottage & Small-Scale Industries. Meaning, features and examples; significance with reference to India.

(c) Adverse impacts of industrialization: a brief understanding of the adverse impacts with reference to industrial pollution and deforestation; measures to overcome the adverse impacts: Afforestation, Waste management.

(d) Tertiary Sector: Education and Healthcare, transportation, Banking, Insurance, Communication, Storage and Warehousing. Role of each of the above in the economic development of the country in brief with the help of examples

**5. Major Problems of the Indian Economy**

(i) Poverty

Meaning of poverty line - concept based on calorie intake; Relative and absolute poverty: meaning with examples; causes of poverty: any five causes of poverty to be discussed.

(ii) Unemployment Meaning; types: Seasonal, Structural, technological: meaning and example of each. Causes of unemployment- any five to be discussed. Schemes and programmes introduced by the government to remove poverty & unemployment. Any two programmes to be studied with the objectives. For example, IRDP, JRY, PKVY, HRIDAY, MNREGA, etc.

**7. Major Reforms and Emerging Trends in the Indian Economy**

(i) LPG Model

Liberalization, Privatization and Globalization: meaning of each term and its positive impact on the Indian economy.

(ii) Smart city

Concept of Smart city; Case Study: take one suitable example of a smart city and discuss the development taken place in the form of infrastructure development, reduction of unemployment,

poverty alleviation, HR development and industrial development.

(iii) 'Digital India' and 'Skill India'.

Case study of each of the above (not to be tested).

## COMMERCIAL APPLICATIONS

**Prescribed Text: ICSE Commercial Applications Part–I for Class9 (by C.B.Gupta–Goyal Brothers)**

In accordance with the ICSE Scope of Syllabus

### Midterm

Chapter1.Introduction to commercial organization.

Chapter2.Ownership structures- sole proprietorship and Joint Hindu family business.

Chapter3. Ownership structures Partnership

Chapter 4. Ownership structures–Joint-stock company

Chapter 5.Ownership structures–Cooperative society.

Chapter 6.Public Sector Enterprises.

Chapter13. Natural resources

Chapter 14. Depletion of resources.

### Final Term.

Chapter 7. Functioning of a commercial organization

Chapter 8. Communication in a commercial organization

Chapter 9. Ways of communicating

Chapter10.Tools of Communication

Chapter 11.Nature and terminology of Accounting

Chapter 12.Accounting records

Chapter15. Practices for conservation of resources Chapter

16.Industrial pollution and degradation of the environment

Note: Final Term will include the chapters of midterm also. Question Pattern:

**SECTION A (40 marks):** Question 1 will be MCQ of 20 marks and two questions with five sub-parts of 2 marks each requiring short answers and will cover the entire syllabus. There will be no choice of questions.

**SECTION B (60 marks):** will consist of questions which will require detailed answers. There will be a choice and candidates will be required to answer four questions out of the given six questions. Each question will have three sub parts of five marks each.

There will be one paper (theoretical) of two hours duration carrying 100 marks and internal assessment (Four Assignments/ Project) of 25 marks each.

Final Term will include the Midterm syllabus also.

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## **Computer Applications**

**Textbook: Understanding Computer Applications with Blue J APC, Latest Edition** Midterm:

Chapter1: Introduction to Object-Oriented Programming Concepts

Chapter 2: Elementary Concept of Objects and Classes

Chapter3: Values and Data Types

Chapter 4: Operators in Java

Chapter 5: Input in Java

Chapter7: Conditional Statements in Java

Chapter 8: Iterative Constructs in Java

Math Functions: Math. Pow () and Math. sqrt

() **Final Term:**

Chapter6: Mathematical Library Methods

Chapter 9: Nested for Loops

Chapter 10: Computing and Ethics

[Mid Term Syllabus to be included]

Question Paper Format: As per ICSE Question Pattern

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