

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION: (2025-26)
BUSINESS ADMINISTRATION
CLASS: XI

Time: 3 Hours

Maximum Marks: 60

NAME: _____ SEC.: _____ ROLL NO.: _____

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **24 questions** in **two** sections: Section-A & Section-B.
3. Section-A has Objective type questions whereas Section B contains Subjective type questions.
4. **Out of the given (6 + 18 =) 24 questions, a candidate has to answer (6 + 11 =) 17 questions in the allotted (maximum) time of 3 hours.**
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (30 MARKS):**
 - i. This section has 06 questions.
 - ii. It is mandatory for every student to complete all the questions as per instructions.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
 - v. Marks allotted are mentioned against each question/part.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):**
 - i. This section contains 18 questions.
 - ii. A candidate has to do 11 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.
 - v.

SECTION-A: OBJECTIVE TYPE QUESTIONS**1. Answer any 4 out of the given 6 questions on Employability Skills: (4 X 1 = 4 marks)**

- | | |
|--|---|
| (i) _____ is the force that drives you to do things. | 1 |
| (a) Regulation (b) Motivation (c) Management (d) Alignment | |
| (ii) Define Strength. | 1 |
| (iii) Dressing up smartly and grooming are important because they help us look _____.
(a) smart (b) shabby (c) untidy (d) mismanaged | 1 |
| (iv) There are ____ parts of speech.
(a) 5 (b) 7 (c) 8 (d) 6 | 1 |
| (v) Name the two types of Motivation. | 1 |
| (vi) Which communication style creates a "I win You Lose" situation? | 1 |

2. Answer any 5 out of the given 7 questions. (5 x 1 = 5 marks)

- | | |
|--|---|
| i. "The increase in the demand for many Ayurvedic medicines, Health products and services in the past few months, is related to the need for building immunity and an increased awareness for health care due to the spread of Corona virus." Identify the features of business environment described above. | 1 |
| a) Specific and general forces b) Inter-relatedness
c) Relativity d) Aggregative | |
| ii. Which type of company is not allowed to subscribe its share to general public? | 1 |
| a) One person company b) Private company
c) Public Company d) Co-operative society | |
| iii. Which of the following is NOT an effective way to identify customer needs? | 1 |
| a) Effective use of feedback and other information to make effective decision.
b) Look for different ways to record customer feedback.
c) Educate about the variety of products available.
d) Communicate effectively with the customers. | |
| iv. The maximum number of Directors in One Person Company are _____. | 1 |
| v. 'Creating a website and selling goods online' is related to Social Environment. | 1 |
| a) True b) False | |

- vi. It is possible to maintain full secrecy and confidentiality in the following form of business. 1
 a) Co-operative Society b) Partnership
 c) Joint Hindu Family d) Sole Proprietorship
- vii. All economic activities whose output is not physical or manufacturing are called _____. 1
 a) Business b) Services c) Employment d) Profession

3. Answer any 6 out of the given 7 questions (6 x 1 = 6 marks)

- i. _____ is a broad plan for bringing the organisation from its present position to the desired position in future. 1
 a) Market research and development b) Technological decisions
 c) Strategic Planning d) Financing Decision
- ii. 'Digilocker' is a flagship initiative of 'Ministry of Electronics and IT', Government of India. It aims at digital empowerment of the citizens by providing access to authentic digital document such as academic certificates issued by different Examinations Boards, Driving Licenses, Vehicles registrations, etc. in a digital format. The above para discusses a few dimensions of Business Environment. Identify the correct dimensions from the following: 1
 a) Economic Environment and Technological Environment
 b) Social Environment and Economic Environment
 c) Social Environment and Political Environment
 d) Political Environment and Technological Environment
- iii. Horticulture is related to what type of industry? 1
 a) Genetic Industries b) Manufacturing Industries
 c) Extractive Industries d) Constructive Industries
- iv. Which of the following is not a dimension of product quality? 1
 a) Performance b) Price c) Reliability d) Conformance
- v. The partner who only allows other partners to use his name and goodwill is called _____. 1
 a) Sleeping partner b) Minor Partner
 c) Nominal Partner d) Partner by Estoppels
- vi. What is Oligarchic Management? 1
- vii. Which of the following statements is true? 1
 a) All goods purchased by businesses are industrial goods
 b) All goods purchased by individuals are consumer goods
 c) Some goods can be classified as both consumer and industrial goods depending on their use
 d) Industrial goods are always more expensive than consumer goods

4. Answer any 5 out of the given 6 questions (5 x 1 = 5 marks)

- i. Which document is also known as the bye laws of the company? 1
- ii. Which of the following is NOT an example of an industrial good? 1
 a) A printing press for a publishing company
 b) A computer used by an accountant in an office
 c) A television purchased for a home
 d) A drill press used in a factory
- iii. Due to increasing presence of women in the workforce. 'Kisan Mart' comes out every Friday with big discount offers on daily use items to attract office-going women to shop on weekends. Which dimension of business environment is being highlighted in the above case? 1
 a) Legal Environment b) Economic environment
 c) Political Environment d) Social Environment
- iv. **Assertion (A):** In partnership firm, the liability of every partner is limited, joint and several. 1
Reason (R): Partnership agreement may be written or oral.
 Choose the correct alternative as stated below:-
 a) Both (A) and (R) are true, (R) is the correct explanation of (A)
 b) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
 c) (A) is correct, but (R) is incorrect
 d) (A) is incorrect, but (R) is correct
- v. _____ refers to all those activities that facilitate the transfer of goods and services from producer to consumers. 1
 a) Commerce b) Trade c) Constructive industries d) Transportation

vi. A, B and C are the partners in a partnership firm. They mutually decide that A's association with the firm will not be revealed to the general public. According to the above statement, A is a 1

- a) Nominal Partner
- b) Dormant Partner
- c) Secret Partner
- d) Partner by estoppel

5. Answer any 5 out of the given 6 questions: (5 x 1 = 5marks)

i. Which of the following are the examples of Legal Environment? 1

- A) Advertisement of alcoholic beverages is prohibited
- B) Decrease in interest rate on loans
- C) Increase in demand for organic foods
- D) Digilockers for storing documents
- E) In 1993, the Supreme Court passed an order to close the iron foundries around 'Taj Mahal' at Agra

- a) A and D
- b) A and B
- c) B and C
- d) A and E

ii. Statutory warning of 'Cigarette smoking is injurious to health' on the cigarette packet is an example of: 1

- a) Legal Environment
- b) Economic environment
- c) Political Environment
- d) Social Environment

iii. In which of the following cases, cooperative societies are not at advantageous position over smaller forms of business? 1

- a) Legal status
- b) Secrecy of information
- c) Liability
- d) Voluntary Association

iv. PB Jewellers, an Indian firm, sells gold chains to the USA. They are involved in which trade? 1

v. "Allowing Coca Cola to operate in India." This is an example of a key component of the business environment. Name the component discussed in given case. 1

vi. Identify the clause which contains the name of the state in which the registered office of the company is to be situated. 1

- a) Situation Clause
- b) Subscription Clause
- c) Name Clause
- d) Object Clause

6. Answer any 5 out of the given 6 questions: (5 x 1 = 5marks)

i. What type of services is not offered by retailers to manufacturers and wholesalers? 1

- a) New product information
- b) Personal selling
- c) Helps in promotion
- d) Helps in distribution of goods

ii. What does the term "perishability" refer to in the context of services?

- a) The ability to be stored for later use
- b) The inability to be stored and must be used immediately
- c) The variability in the quality of service
- d) The degree of customer involvement

1

iii. **Assertion (A):** Understanding and analysis of business environment provide the base for planning and policy formation.

Reason (R): Environment is a source of both opportunities and threats for a business enterprise.

1

Choose the correct alternative as stated below:-

- a) Both (A) and (R) are true, (R) is the correct explanation of (A)
- b) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- c) (A) is correct, but (R) is incorrect
- d) (A) is incorrect, but (R) is correct

iv. What is the term for the situation where a customer perceives a service differently based on the employee they interact with? 1

- a) Variability
- b) Unregulated services
- c) Inseparability
- d) Intangibility

v. Which of the following statements is true about the liability of partners in an LLP?

- (a) Partners have unlimited liability, similar to traditional partnerships.
- (b) Partners' liability is limited to their agreed contribution to the LLP.
- (c) Partners are not liable for the actions of other partners.
- (d) Partners are liable for all debts of the LLP, including personal assets.

1

vi. What is the term for the process of creating a distinct identity for a product or service in the minds of consumers? 1

- a) Packaging
- b) Pricing
- c) Branding
- d) Promotion

SECTION-B: SUBJECTIVE TYPE QUESTIONS

Answer any 3 out of the given 5 questions in 20-30 words each on Employability Skills:
(3 x 2 = 6 marks)

- 7. Define Persuasive Skill. 2
- 8. Name any two types of sentences. 2
- 9. How to count the number of words in a document? 2
- 10. Define Personal Hygiene with the help of an example. 2
- 11. List any two measures to be adopted to manage stress. 2

Answer any 3 out of the given 5 questions in 20– 30 words each: (3 x 2 = 6 marks)

- 12. Distinguish between Product and Services on the basis of: 2
 - (a) Ownership
 - (b) Source of Value
- 13. National Digital Library of India (NDL India) is a pilot project initiated by the HRD ministry. It works towards developing a framework of virtual repository of learning resources with a single-window search facility. It provides support to all academic levels including researchers, life-long learners and differently-abled learners free of cost. State the dimensions of business environment highlighted above. 2
- 14. What is LLP? Explain its features. 2
- 15. "Commerce includes several auxiliary services which help in exchange of goods and services." Do you agree with the statement? If yes then provide any two aids to trade in support of the statement. 2
- 16. Explain partnership on the basis of Liability. 2

Answer any 2 out of the given 3 questions in 30– 50 words each: (2 x 3 = 6 marks)

- 17. Discuss the nature of Business Environment on the basis of following approaches. 3
- 18. "Coca-Cola was produced by Dr. Johan S. Pemberton, a local pharmacist in Atlanta, Georgia, in 1986. He got the syrup sampled and introduced it in the market for 5 cents a glass." By reading this information, what do you think the form of business Coca-Cola initially had? Also state any one merit and one limitation of this form. 3
- 19. Explain any three distinctive characteristics of Joint Stock Company. 3

Answer any 3 out of the given 5 questions: (4 x 3 = 12 marks)

- 20. A new cooperative store has been set up in Maharashtra through registration under Maharashtra Cooperative societies act. It was set to procure essential consumer commodities in bulk from various wholesalers and manufacturers to supply the same at reasonable price to public and its members. In context of above case.
 - (i) Identify the type of organisation being described in above lines.
 - (ii) State any three features of the organisation. 1+3=4
- 21. Rapid Tour Ltd. is a travel agency which books rail tickets on commission basis. It takes two days for the rapid tours to get the tickets from Railway Reservations Counters and delivers the tickets to the consumers. In the last one year, there has been drastic decreased in its business as most of the consumers have shifted to Satya Tour and Travels (another Travel Agency), which provides the tickets within half hours through use of internets.
 - a) Which component of business environment is being overlooked by Rapid Tours Ltd.? Explain it.
 - b) Which characteristics of management is being violated by Rapid Tours Ltd.? Explain it. 2+2=4
- 22. Every business organization regardless of the company, nature of its business, size or type or location have to perform a few strategic activities so that the Business process or workflow of the organization is smooth and it flows uninterrupted. Each strategic activity is highly inter-related and must be consistent with the other. Identify any four major activities involved in management of Business operations. 4
- 23. Identify the following and explain it:
 - (a) The most important or fundamental document of a company.
 - (b) The document containing the rules and regulations for the internal management of the affairs of a company.
 - (c) The amount of money which must be raised before allotment of shares.
 - (d) The clause specifies the maximum capital which the company will be authorised to raise through the issue of shares. 1+1+1+1=4
- 24. "Be consistent and courteous when serving your customers as your customers will have expectations of how their needs should be met." Identify the key points regarding consumer needs. 4

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION: (2025-26)
ACCOUNTANCY
CLASS: XI

Time: 3 Hours

Maximum Marks: 80

NAME: _____ SEC.: _____ ROLL NO.: _____

General Instructions:

1. This question paper contains 34 questions. All questions are compulsory.
2. Question Nos.1 to 20 carries 1 mark each.
3. Questions Nos. 21 to 26 carries 3 marks each.
4. Questions Nos. 27 to 29 carries 4 marks each.
5. Questions Nos. 30 to 34 carries 6 marks each.
6. There is no overall choice. However, internal choice has been provided in 6 questions of one mark, 2 questions of three marks, 1 question of four marks and 1 question of six marks.

Q1. Which qualitative characteristics of accounting information is reflected when accounting information is clearly presented? 1

- A) Understandability B) Relevance C) Reliability D) Comparability

Q2. Which of the following statements is/are correct? 1

- I. Cost accounting provides information for management accounting and financial accounting.
- II. Cost accounting provides pricing information from marketing studies.
- III. Cost accounting provides financial information regarding the cost of acquiring resources.
- IV. Cost accounting provides non-financial information regarding the cost of operational efficiencies.

Codes

- (A) I, II and IV (B) II, III and IV (C) I, II and III (D) II and IV

OR

Which of the following statements is/are incorrect in relation to a business transaction?

- I. Bought furniture of ₹ 10,000 for business.
- II. Paid for salaries of employees ₹ 5,000.
- III. Paid sons' fees from her personal bank account ₹ 20,000.
- IV. Paid sons' fees from business ₹ 2,000.

Codes

- (A) I and II (B) II and III (C) Only III (D) Only IV

Q3. **There are two statements marked as Assertion (A) and Reason (R).**

Read the statements and choose the appropriate option from the options given below: 1

Assertion (A): Accounting is an art as it involves recording, classifying, summarising business transactions with a view to ascertain the net profit.

Reason (R): Accounting is a science since it is based on certain specified principles and accounting standards.

Alternatives:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true and (R) is not the correct explanation of (A).
- (C) (A) is true, but (R) is false.
- (A) (A) is false, but (R) is true.

Q4. Goods used from stock of the business for business purposes are treated as the same use are treated as _____ but similar goods used by the proprietor for his personal _____. 1

- (A) Inventory, expenditure (B) Drawings, inventory
 (C) Drawings, expenditure (D) Expenditure, drawings

Q5. **There are two statements marked as Assertion (A) and Reason (R).** 1

Read the statements and choose the appropriate option from the options given below:

Assertion (A): Capital expenditure is incurred for the purpose of increasing the earning capacity of the business.

Reason (R): Revenue expenditure is incurred for maintenance of earning capacity.

Alternatives:

- (A) Both (A) and (R) are true and (R) is the correct explanation of (A).
- (B) Both (A) and (R) are true and (R) is not the correct explanation of (A).

(C) (A) is true, but (R) is false.

(D) (A) is false, but (R) is true.

Q6. Convention of conservatism takes into account:

1

(A) All future profits and losses

(B) All future profits and not losses

(C) All future losses and not profits

(D) Neither profits nor losses of the future

OR

Due to which of the following window dressing is prohibited:

(A) Convention of Consistency

(B) Accounting Period Concept

(C) Convention of full Disclosure

(D) Money Measurement Concept

Q7. Match the following

1

Column I	Column II
A. Quality of management is not recorded in books	(i) Full disclosure principle
B. Change in method of valuation of stock is shown in footnotes	(ii) Consistency concept
C. Making provision for likely bad debts should remain consistent with previous years	(iii) Money measurement principle
D. Provision should be made for pending law suit against firm	(iv) Principle of conservation

Codes:

(A) A-(iii), B-(ii), C-(i), D-(iv)

(B) A-(i), B-(ii), C-(iii), D-(iv)

(C) A-(iii), B-(ii), C-(iv), D-(i)

(D) A-(iii), B-(i), C-(ii), D-(iv)

Q8. In income measurement and recognition of assets and liabilities, which of the following concepts goes together?

1

(A) Periodicity, accrual, matching

(B) Cost, accrual, matching

(C) Going concern, cost, realisation

(D) Going concern, periodicity, reliability

Q9. Which of the following is the correct adjustment entry for closing stock?

1

A) Closing Stock A/c Dr

B) Closing Stock A/c Dr

To Trading A/c

To Profit and Loss A/c

C) Trading A/c Dr

D) Profit and Loss A/c

To Closing Stock A/c

To Closing Stock A/c

Q10. **Statement I:** Source document are required for audit and tax assessments.

1

Statement II: Source documents do not serve as legal evidence in case of a dispute.

Alternatives:

A) Both the statements are correct

B) Both the statements are incorrect

C) Statement I is correct and statement II is incorrect.

D) Statement I is incorrect and statement II is correct.

Q11. **There are two statements marked as Assertion (A) and Reason (R).**

1

Read the statements and choose the appropriate option from the options given below:

Assertion (A): GST is not levied in case of amount deposited into bank and amount withdrawn from bank.

Reason (R): GST is also not levied in case of amount paid to creditors and amount received from debtors.

Alternatives:

(A) Both (A) and (R) are true and (R) is the correct explanation of (A).

(B) Both (A) and (R) are true and (R) is not the correct explanation of (A).

(C) (A) is true, but (R) is false.

(D) (A) is false, but (R) is true.

Q12. Overdraft as per cash book is ₹ 10,000, cheque issued but not presented for payment ₹ 3,500 and cheque deposited and not cleared ₹ 2,500. what is the balance as per pass book?

1

(A) Balance ₹ 9,000 (B) Overdraft balance ₹ 9000 (C) Balance ₹ 11,000 (D) Overdraft ₹ 11,000

OR

Unfavourable bank balance means:

(A) Credit balance as per cash book

(B) Debit balance as per cash book

(C) Favourable balance as per cash book

(D) Debit balance as per passbook

Q13. Which of the following errors shall not prevent the agreement of a trial balance:

1

(A) Goods sold to X for ₹1,000 was recorded as ₹10,000 in sales book

(B) The total sales book was overcast by ₹1,000

(C) ₹ 8,000 were posted in Y's A/c instead of ₹800

(D) Cash balance was not included in the trial balance

Q14. On 1st April 2023, balance of cash column of cash book was ₹10,000. After receiving ₹2,000 from Anil, giving cheque of ₹3,200 to Sunil and making payment of wages ₹500, balance of cash will be: **1**

- (A) ₹11,500 (B) ₹8,300 (C) ₹8,800 (D) ₹6,300

OR

On 1st May 2023, cash book bank overdraft balance was ₹2,000. On depositing ₹10,000 into bank, and giving a cheque of ₹7,200 for rent, the balance will be:

- (A) ₹4,800 Dr. (B) ₹4,800 Cr. (C) ₹800 Dr. (D) ₹800 Cr.

Q15. Which of the following entries are recorded in journal proper? **1**

- I. Purchase of items on credit other than goods
II. Goods withdrawn by the owner for personal use
III. Endorsement and dishonour of bills of exchange

Codes:

- (A) I and II (B) I and III (C) Only I (D) I, II and III

Q16. Normally, the following accounts are balanced: **1**

- (A) Personal A/c & Nominal A/c (B) Real A/c & Nominal A/c
(C) Only Nominal A/c (D) Personal A/c & Real A/c

Q17. Paid to Jiya ₹11,500 in full settlement of ₹12,000. Posting will be made in Jiya's A/c: **1**

- (A) ₹12,000 on Debit side (B) ₹12,000 on Credit side
(C) ₹11,500 on Debit side (D) ₹11,500 on Credit side

OR

Purchased goods from Manoj of ₹20,000 at 20% trade discount. Posting will be made in Manoj's A/c:

- (A) Debit side ₹20,000 (B) Credit side ₹20,000
(C) Debit side ₹16,000 (D) Credit side ₹16,000

Q18. Match the following: **1**

Column I	Column II
A. Passbook is a copy of	(i) Bank overdraft
B. Credit balance of cash book shows	(ii) Customer's account
C. Credit balance of passbook shows	(iii) Negative balance
D. Debit balance of passbook means	(iv) Favourable balance

Codes:

- | | A | B | C | D |
|-----|------|------|-------|-------|
| (A) | (i) | (iv) | (iii) | (ii) |
| (B) | (ii) | (iv) | (i) | (iii) |
| (C) | (ii) | (iv) | (iii) | (i) |
| (D) | (iv) | (ii) | (i) | (iii) |

Q19. If the original cost of the asset is ₹ 2,00,000 and depreciation is charged @ 10% p.a. at written down value, then the amount of depreciation for 1st, 2nd and 3rd year respectively is: **1**

- (A) ₹ 20,000; ₹ 18,000; ₹ 16,200 (B) ₹ 18,000; ₹ 16,200; ₹ 14,500
(C) ₹ 20,000; ₹ 20,000; ₹ 20,000 (D) ₹ 20,000; ₹ 15,000; ₹ 10,000

OR

A machine is purchased for ₹ 50,000 and is expected to have a useful life of 10 years. At the end of 10th year it is expected to have a sale value of ₹ 6,000 but expenses related to its disposal are estimated at ₹ 1,000. Then its depreciable cost is:

- (A) ₹ 45,000 (B) ₹ 50,000 (C) ₹ 44,000 (D) ₹ 46,000

Q20. Which of the following gives the correct formula for calculating the original cost of an asset for depreciation? **1**

- (A) Original cost = Purchase Price
(B) Original cost = Purchase Price + Freight
(C) Original cost = Purchase Price + Freight + Installation cost
(D) Original cost = Purchase Price – cost of Acquisition

Q21. Write any three distinctions between Trade discount and Cash discount. **3**

OR

Explain any three features of Goods and Service Tax (GST).

Q22. Explain any three points in order to appreciate the exact nature of Accounting. **3**

Q23. Give one example for each of the following transactions in relation to accounting equation. **3**

- a) Increase in an asset and a liability
- b) Increase in an asset and in capital
- c) Decrease in an asset and a liability

Q24. Journalise the following transactions in the books of Kaveri Traders, Bengaluru: **3**

2023	
May 15	Purchased goods from Raghunath & Sons of Belgaum of the list price of ₹1,25,000 at 20% trade discount and 2% cash discount on purchase price of goods. Paid CGST and SGST @6% each. Payment was made immediately by cheque.
May 20	Sold to Aryan Brothers & Co. Hubli goods of the list price of ₹40,000 at 25% trade discount and 3% cash discount at the time of sale itself. Charged CGST and SGST @6% each. Full payment received by cheque at the time of sale itself.
May 22	Sold to Vignesh Iyer & Bros. of Mysuru goods of the list price of ₹2,50,000 at 20% trade discount and 4% cash discount on sale price. Charged CGST and SGST @6% each. 80% of the amount received by cheque immediately.

Q25. Post the following transactions into Purchases Return Account and into the Ledger Account of any one supplier: **3**

(A) 2 Banarsi sarees @ ₹2,000 each and 2 Kanjivaram sarees @ ₹12,500 each were bought from Neelam Mills, trade discount on all items @ 20%. However on delivery of these sarees were found defective and were returned back (Debit note no. 032)

(B) Returned to Payal Mills, Surat-5 polyster sarees @ ₹200 each. Trade discount @ 10% (Debit Note No. 101)

Also prepare purchase return account and Neelam Mills account.

Q26. State any three distinction between Capital Expenditure and Revenue Expenditure. **3**

OR

What do you mean by Entity? Explain its types.

Q27. Calculate the amount of external liabilities as on 31st March 2022 in each of the following cases: **4**

(i) On 1st April, 2021, A started a business with a capital of ₹20,000 and a loan of ₹10,000 borrowed from a friend. During 2021-22, he earned a profit of ₹10,000. On 31st March, 2022, the total assets were ₹1,00,000.

(ii) On 1st April, 2021, Shyam started a business with a capital of ₹20,000 and a loan of ₹10,000 borrowed from a friend.

During 2021-22, he earned a profit of ₹10,000 introduced an additional capital of ₹12,000 and had withdrawn ₹6,000 for his personal use. On 31st March, 2022 the total assets were ₹1,00,000.

OR

Open 'T' shape account of our creditor 'Sanjay' and write the following transactions on the proper side:

- 1. Purchased goods from Sanjay on Credit for ₹40,000.
- 2. Paid to Sanjay ₹25,000.
- 3. Again purchased goods from Sanjay on Credit for ₹16,000.
- 4. Goods returned to Sanjay for ₹2,000.

Q28. Enter the following information of M/s. Malhan Bros and Co., Delhi, prepare the purchases book for the month of February, 2019: **4**

2019 Feb 1 Purchased from M/s. Black and Co., Kolkata

50 pencils @ ₹ 600

2 dozen registers @ ₹ 250 per dozen

Less Trade discount @ 10%

Feb 5 Purchased for cash from Student Mart

20 dozen exercise books @ ₹ 150 per dozen

Feb 10 Purchased from the Paprika Co., Delhi

8 reams of white paper @ ₹ 250 per ream

10 reams of ruled papers @ ₹ 300 per ream

Less Trade discount @ 10%

Feb 20 Purchased 80 Reynolds Pens @ ₹ 10 each from M/s. Sharma Bros., Delhi.

CGST and SGST IS LEVIED @ 2.5% each and IGST is levied @ 5%.

Q29. Prepare a Trial Balance from the following information:

4

Particulars	₹
Prepaid expenses	5,000
Outstanding rent	2,000
Bad debts recovered	4,000
Interest on Investment	1,000
Due to Mohan	5,000
Bank overdraft	2,000
Discount allowed	800
Due from Vinod	1,200
Investment	15,000
Patents	4,000
Machinery	6,000
Capital	18,000

Q30. Prepare analytical petty cash book for the following transactions. The imprest amount is ₹2,000. 6

Date (2022)	Particulars	Amount (₹)
Jan 1	Paid cartage	50
Jan 2	STD charges	40
Jan 2	Bus fare	20
Jan 3	Postage	30
Jan 4	Refreshment for employees	80
Jan 6	Courier charges	30
Jan 8	Refreshment of customer	50
Jan 10	Cartage	35
Jan 15	Taxi fare to manager	70
Jan 18	Stationery	65
Jan 20	Bus fare	10
Jan 22	Fax charges	30
Jan 25	Telegram charges	35
Jan 27	Postage stamps	200
Jan 29	Repair of furniture	105
Jan 30	Laundry expenses	115
Jan 31	Miscellaneous expenses	100

Q31 Enter the following transactions in Purchase Return Book of Suraj & Sons, Varanasi (U.P.) assuming CGST @ 6% and SGST @ 6% and post it into Ledger (any three):
2023

6

May 2 – Returned goods to Sudhir Chandra of Lucknow (U.P.) for ₹15,000.

May10 – Goods Returned to Mahadeva Brothers, Jamshedpur (Jharkhand) being not according to sample worth ₹50,000.

May20 – Allowance claimed from Sri Ram & Sons, Patna (Bihar) on account of mistake in the invoice, ₹20,000.

Q32. Journalise the following items in the books of Rajesh Kumar & Sons, giving suitable narrations:- **6**

- (i) Bought goods from Naresh for Cash ₹50,000. Also paid ₹1,000 for their carriage.
- (ii) Paid to Preeta ₹9,650 in full payment of her dues of ₹10,000.
- (iii) Purchased a machinery by giving a cheque of ₹3,00,000 and paid ₹25,000 in Cash as wages on its installation.
- (iv) Bricks for ₹ 15,00,000 and timber for ₹10,00,000 purchased for the construction of building. The payment was made by cheque.
- (v) Purchased an old machinery for ₹ 1,00,000 and spent ₹5,000 on its carriage and ₹20,000 on its immediate repairs. Entire payment is made by cheque.
- (vi) Paid ₹2,500 for repairing the office furniture.

Q33. On 1st July, 2020, Ashwani purchased a machine for ₹2,00,000 on credit from Dushyant. **6**
Installation expenses ₹25,000 are paid by cheque. Depreciation is to be charged on written down value method @10% per annum. Prepare necessary ledger accounts for first three years, assuming that Ashwani closes his books on 31st December.

Q34. On 31st March, 2023, Pass Book showed a balance of ₹25,000. Prepare a Bank Reconciliation **6**
Statement from the following particulars:

- (i) Cheques of ₹20,000 were deposited in Bank on 27th March, 2023, out of which cheques of ₹5,000 were cleared on 1st April, 2023. Rest are not cleared.
- (ii) On 28th March, 2023, cheques were issued amounting to ₹15,000, out of which cheques of ₹3,000 were presented in March, ₹4,000 on 2nd April and rest were not presented.
- (iii) Cheques of ₹10,000 were deposited in Bank on 28th March, 2023, out of which cheques of ₹4,000 were cleared on 2nd April, 2023 and rest are dishonoured.
- (iv) Interest on investment collected by bank does not appear in the Cash Book ₹800.
- (v) A B/R of ₹9,000 previously discounted from the bank was dishonoured on 30th March, 2023 but no intimation was received from the bank till 31st March.
- (vi) Bank has debited ₹1,500 and credited ₹1,200 in our account.

OR

On 31st December, 2019 the Cash Book of Gopal showed debit balance of ₹12,000. On comparing the Cash Book with the Pass Book, the following discrepancies were noted:—

- (a) Cheques were issued for ₹15,000, but of them cheques for ₹7,700 have not yet been presented.
- (b) Cheques for ₹8,000 were deposited in bank but out of these cheques for ₹2,000 were not recorded in the Cash Book.
- (c) Cheques deposited in bank, but not credited ₹3,800.
- (d) A cheque for ₹350 was paid into bank but bank credited the amount with ₹530 by mistake.
- (e) Bank received interest on debentures on behalf of Gopal amounting to ₹300.
- (f) It was also found that the total of one page on the payment side of the Cash Book was ₹4,520 but it was written on the next page as ₹5,420.

Prepare a Bank Reconciliation Statement.



BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION: (2025-26)
BANKING
CLASS: XI

Time: 3 Hours

Maximum Marks: 60

NAME: _____ SEC.: _____ ROLL NO.: _____

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **24 questions** in **two** sections: Section-**A** & Section-**B**.
3. Section-**A** has Objective type questions whereas Section **B** contains Subjective type questions.
4. **Out of the given (6 + 18 =) 24 questions, a candidate has to answer (6 + 11 =) 17 questions in the allotted (maximum) time of 3 hours.**
5. All questions of a particular section must be attempted in the correct order.
6. **SECTION A - OBJECTIVE TYPE QUESTIONS (30 MARKS):**
 - i. This section has 06 questions.
 - ii. It is mandatory for every student to complete all the questions as per instructions.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
 - v. Marks allotted are mentioned against each question/part.
7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):**
 - i. This section contains 18 questions.
 - ii. A candidate has to do 11 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

SECTION-A: OBJECTIVE TYPE QUESTIONS (30 marks)**1. Answer any 4 out of the given 6 questions on Employability Skills: (4 X 1 = 4 marks)**

- (i) This is the Motivation that leads you to achieve a goal because of personal satisfaction or desire. 1
 (a) Intrinsic (b) Extrinsic (c) External (d) Aligned
- (ii) Write any two C's out of the 7 C's of Communication. 1
- (iii) Expand TEAM. 1
- (iv) Which one is a negative facial expression? 1
 (a) Listening with concentration (b) Nodding while speaking
 (c) Perfect eye contact (d) Looking away from the speaker
- (v) Define Passive-Aggressive type of communication. 1
- (vi) What is the purpose of communication? 1

2. Answer any 5 out of the given 7 questions. (5 x 1 = 5 marks)

- i. What is the purpose of a partnership deed? 1
 (a) To register the firm with the government
 (b) To outline rules and terms agreed by partners
 (c) To issue shares to the public
 (d) To elect a board of directors
- ii. A joint stock company is created under which law? 1
 (a) Partnership Act 1932
 (b) Companies Act 2013
 (c) Contract Act 1872
 (d) Banking Regulation Act
- iii. What governs the affairs of a company? 1
 (a) Income Tax Act
 (b) Partnership Act, 1932
 (c) Memorandum & Articles of Association
 (d) Labour Law

- iv. In a company, who are considered the real owners? 1
 (a) Directors (c) Employees
 (b) Shareholders (d) Creditors
- v. Retail banking primarily offers services to: 1
 (a) Corporate and Government Bodies
 (b) Foreign Investors
 (c) General Public
 (d) High-net-worth Individuals only
- vi. Interest on saving bank account was deregulated by RBI from: 1
 (a) 1st April 2010 (c) 24th October 2011
 (b) 25th October 2011 (d) 1st January 2012
- (vii) Which account is exempted from Income Tax? 1
 (a) Saving Account (b) Current Account
 (c) Recurring Deposit Account (d) Fixed Deposit Account
- 3. Answer any 6 out of the given 7 questions. (6×1 = 6 marks)**
- (i) Which of the following is not allowed to open a Saving Bank Account? 1
 (a) Individual in their own name
 (b) Joint account holders
 (c) Profit-making companies
 (d) Non-profit welfare organizations
- ii) Write the full form of CBLO? 1
- (iii) Which bank emerged from the merger of the Presidency Banks in 1921? 1
 (a) Imperial Bank of India
 (b) A cooperative bank
 (c) Regional Rural Bank
 (d) Private Sector Bank
- (iv) The major Nationalisation of 14 banks took place in: 1
 (a) July 1969 (b) April 1980 (c) October 1908 (d) March 1980
- (v) What percentage of total bank branches came under government control after the 1980 Nationalisation? 1
 (a) 70% (b) 80% (c) 91% (d) 89%
- (vi) State any one objective behind nationalisation of banks. 1
- (vii) What is "Call Money"? 1
 (a) Funds lent for 15 to 30 days
 (b) Funds lent for 7 to 14 days
 (c) Funds lent overnight
 (d) Funds lent for 1 week

4. Answer any 5 out of the given 6 questions: (5×1=5 marks)

- (i) One of the main features of a money market instrument is: 1
 (a) It is difficult to transfer
 (b) It is not a long-term investment
 (c) It is a long-term investment
 (d) It is highly liquid and low risk
- (ii) The minimum cash balance banks must maintain is called: 1
 (a) Cash Reserve Ratio
 (b) Statutory Liquidity Ratio
 (c) Liquidity Management
 (d) Loan Margin
- (iii) Why do banks invest idle cash in securities? 1
 (a) To reduce tax
 (b) To earn reasonable income

- (c) To increase their liabilities
- (d) To avoid customer deposits

(iv) Which of the following securities is mentioned as an investment option for banks? 1

- (a) Foreign Exchange
- (b) Real Estate
- (c) Tax-free Infrastructure Bonds
- (d) Gold Jewels

(v) What is the purpose of maintaining the Statutory Liquidity Ratio (SLR)? 1

- (a) To reduce employer salaries
- (b) To control bank credit expansion and ensure safety
- (c) To maintain its liquidity in foreign currency
- (d) To increase the deposits of customers

(vi) What do you mean by Time Liability? 1

5. Answer any 5 out of the given 6 questions: (5×1=5)

(i) What is sometimes required if a passbook is submitted after a long time or many transactions? 1

- (a) PIN reset
- (b) Nominee registration
- (c) Printed slip request for operation
- (d) Internet banking registration

(ii) What encourages shifting of cash and coin at banks? 1

- (a) Use of pay-in slips
- (b) ATM withdrawals
- (c) Passbook entries
- (d) Mobile banking

(iii) What are the two key components of KYC? 1

(iv) What is the first stage of Money Laundering? 1

- (a) Integration (b) Layering (c) Placement (d) Registration

(v) What is the function of the High Value Clearing (HVC) system? 1

- (a) To detect fake currency
- (b) To clear large value cheques on the same day
- (c) To print high-denomination notes
- (d) To transfer cash physically

(vi) What is the full form of MICR? 1

Q.6 Answer any 5 out of the given 6 questions (5×1=5)

(i) **Assertion (A):** Commercial banks offer lockers and encash traveller's cheques for customers.

Reason (R): These services are part of the general utility services rendered by commercial banks.

Choose the correct alternative: 1

- (a) Both (A) and (R) are true and the (R) is the correct explanation of the (A).
- (b) Both (A) and (R) are true but the (R) is not the correct explanation of the (A).
- (c) A is true, but (R) is false
- (d) A is false, but (R) is true

(ii) Which of the following is new private sector bank? 1

- (a) J&K Bank
- (b) ICICI Bank
- (c) Karnataka Bank
- (d) Development Credit Bank

- (iii) When did SBI merge with the State Bank of Saurashtra? 1
 (a) 26 August 2010
 (b) 13 August 2008
 (c) 25 August 2015
 (d) 10 August 2006
- (iv) What role does NABARD play in finance? 1
- (v) What is the ownership pattern of Regional Rural Banks (RRBs)? 1
 (a) 100% Government of India
 (b) 50% Government of India, 25% State Government, 25% Public Sector Banks
 (c) 50% Government of India, 35% Public Sector Banks, 15% State Government
 (d) 100% Public Sector Banks
- (vi) In which company do the liability limited to the amount an off-staff member guarantee to contribute during winding up? 1
 (a) Companies limited by shares
 (b) Unlimited companies
 (c) Companies limited by guarantee
 (d) Private company

SECTION B: SUBJECTIVE TYPE QUESTIONS (30 Marks)

Answer any 3 out of the given 5 questions on Employability Skill. Answer each question in 20–30 words. (3×2 = 6 marks)

7. Define grooming with the help of an example. 2
 8. What do we mean by Effective communication. Give one example. 2
 9. "Time management reduces stress". Justify the statement. 2
 10. Differentiate between Passive-aggressive and assertive communication. 2
 11. Define Self-management. 2

Answer any 3 out of the given 5 questions in 20-30 words each. (3×2=6 marks)

12. State any two advantages of Recurring deposit. 2
 13. Describe the miscellaneous relationships that may exist between a banker and customer. 2
 14. What are the two primary functions of Commercial Bank? 2
 15. Discuss the implications and steps must be taken when does a bank is unable to supply CDR. 2
 16. Explain any two factors affecting the decision for investment. 2

Answer any 2 out of the given 3 questions in 30-50 words each. (2×3=6 marks)

17. Explain the three instruments used by the RBI to control the monetary policy. 3
 18. What precautions should a banker take while opening an account for an illiterate person? 3
 19. Explain the main objectives for maintaining the SLR ratio. 3

Answer any 3 out of the given 5 questions in 50-80 words each. (3×4=12 marks)

20. Enumerate the procedures and precautions to be followed by a banker while opening a joint account. 4
 21. "Firm business may be carried on by all the partners or any one of them acting for all." Justify this statement with the features of it. 4
 22. Differentiate between Secured loan and unsecured loan. 4
 23. Explain any four initiatives taken by the RBI to improve the Payment and Settlement System. 4
 24. Describe the various agency services rendered by Commercial Banks. 4

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION: (2025 – 2026)
COMPUTER SCIENCE
CLASS: XI

Time: 3 Hours

Maximum Marks: 70

NAME: _____ SEC.: _____ ROLL NO.: _____

General Instructions:

- This question paper contains 37 questions.
- All questions are compulsory. However, internal choices have been provided in some questions. Attempt only one of the choices in such questions
- The paper is divided into 5 Sections- A, B, C, D and E.
- Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
- Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
- Section C consists of 3 questions (29 to 31). Each question carries 3 Marks.
- Section D consists of 4 questions (32 to 35). Each question carries 4 Marks.
- Section E consists of 2 questions (36 to 37). Each question carries 5 Marks.
- All programming questions are to be answered using Python Language only.
- In case of MCQ, text of the correct answer should also be written.

SECTION – A (1 X 21 = 21 MARKS)

1. State True or False: 1
Python has lesser libraries as compared to C and Java.
2. What do you mean by lexical unit in python? 1
3. Which out of the following is **not** an input device? 1
a) Keyboard b) Mouse c) Scanner d) Printer
4. Static RAM provides the fastest access time, which is about _____ nanoseconds. 1
a) 5 b) 10 c) 15 d) 20
5. Which out of the following expression represents Absorption law? 1
a) $A(A+B)=A$ b) $(A+B)B=A$ c) $AB+BA=B$ d) $A(A+B)=B$
6. The complement of the expression $X + \overline{Y}Z$ is _____ 1
a) $\overline{X} + \overline{Y}.Z$ b) $\overline{X} + YZ$ c) $\overline{X + \overline{Y}Z}$ d) $\overline{X}.(Y + Z)$
7. Consider the following pseudocode, and determine how many times the loop is iterable? 1
i:=0
while i ≠ 5
 i:= i+1
a) 0 b) 4 c) 5 d) 6
8. A pictorial representation of step by step solution of a problem is called a/an _____ 1
a) pseudocode b) flowchart c) algorithm d) dry run
9. Which error is raised in python interpreter when an identifier name is not found? 1
a) IOError b) NameError c) ValueError d) TypeError
10. What will be the output of the following python code? 1
a=3
b=3.0
print(a is b)
a) 3 b) 3.0 c) True d) False

11. $(100111010)_2 = (?)_8$ 1
 a) 543 b) 473 c) 472 d) 462
12. $(214)_{10}$ if converted to hexadecimal, will give the result as _____ 1
 a) $(A7)_{16}$ b) $(D7)_{16}$ c) $(B2)_{16}$ d) $(D6)_{16}$
13. Which of the following is an entry controlled loop? 1
 a) if b) if-else c) while d) do-while
14. Consider the loop given below:
 for i in range (7,4,-2):
 print(i)
 break
 What will be the value of i after the loop executes?
 a) 7 b) 5 c) 4 d) error
15. What will be the output of the following code? 1
 a=0
 for i in range (4,8):
 if i%2==0:
 a=a+i
 print(i)
 a) 1 b) 2 c) 4 d) 7
16. What will be the output of the following python code: 1
 >>> "2" * "3"
 a) Error b) '222' c) 8 d) 23
17. Which of the following string function will check for uppercase of all the characters?
 a) upper() b) isupper() c) toupper() d) capitalize()
18. Identify the correct possible output for the following python code:
 import random
 for N in range(2,5,2):
 print(random.randrange(1,N), end = "#")
 a) 1#3#5# b) 2#3# c) 1#3# d) 1#4#
19. A _____ refers to a collection of modules that together cater to specific type of needs or applications.
 a) module b) library c) class d) object

ASSERTION AND REASON:

In the following questions, a statement of **Assertion (A)** is followed by a statement of **Reason (R)**. Mark the correct choice as

- (a) Both A and R are true and R is the correct explanation of A
 (b) Both A and R are true and R is not the correct explanation of A
 (c) A is True but R is False
 (d) A is False but R is True

20. **ASSERTION (A):** The len() function can be used to find the number of characters in a string. 1
REASON(R): The len() function can also be used to count the number of elements in a list or tuple.
21. **ASSERTION (A):** The individual characters of a string are randomly stored in a memory. 1
REASON(R): Python strings are stored in memory by storing individual characters in contiguous memory locations.

SECTION – B (2 x 7 = 14 MARKS)

22. What is Application software? Name the different categories of application software. 2
23. Convert 200_{10} to binary number using repeated division method. 2
24. What is Pseudocode? 2

OR

What does a cross platform language mean?

25. Identify the types of literals from the following: 2
- a) True b) "True" c) OXFACE d) 23.785

OR

In a school fest, three randomly chosen students out of 100 students (having roll numbers 1 – 100) have to present bouquets to the guests. Help the school authority choose 3 students randomly.

26. Prepare a truth table for the following Boolean expression: $\overline{A}B + \overline{B}C + \overline{C}A$ 2
27. Find the output of the following code, if the input string is 'Test'.

```
S=input("Enter String:")
```

```
RS = " "
```

```
for ch in S:
```

```
    RS = ch+RS
```

```
print(S+RS)
```

28. Write a program to calculate and print the sums of even and odd integers of the first n natural numbers. 2

OR

Write two points of differences between syntax and semantics errors.

SECTION – C (3 x 3 = 9 MARKS)

29. Draw a logic circuit for the Boolean expression: $Q = AB + BC (B+C)$ 3

OR

Name and explain the three types of language processors.

30. Write a program to generate 3 random integers between 100 and 999 which is divisible by 5. 3

OR

Find the output of the following code fragments:

a) print(10+6*2**2!=9/4-3 and 29>=29/9)

b) print(5%10+10<50 and 29<=29)

c) print((0<6)or(not(10==6))and (10>0))

1

1

1

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION: (2025-2026)

PHYSICS
CLASS: XI

Time: 3 Hours

Maximum Marks: 70

NAME: _____ SEC.: _____ ROLL NO.: _____

General Instructions:

- (i) There are 33 questions in all. All questions are compulsory.
- (ii) This question paper has five sections: Section A, Section B, Section C, Section D and Section E.
- (iii) All the sections are compulsory.
- (iv) **Section A** contains **sixteen questions, twelve MCQ and four Assertion Reasoning based of 1 mark each**, **Section B** contains **five questions of two marks each**, **Section C** contains **seven questions of three marks each**, **Section D** contains **two case study-based questions of four marks each** and **Section E** contains **three long answer questions of five marks each**.
- (v) There is no overall choice. However, an internal choice has been provided in two questions in Section B, one question in Section C and all three questions in Section E. You have to attempt only one of the choices in such questions.
- (vi) Use of calculator is not allowed.

SECTION - A

1. Which of the following pairs of physical quantities does not have same dimensional formula? 1
 - (a) Work and torque
 - (b) Angular momentum and Planck's constant
 - (c) Tension and surface tension
 - (d) Impulse and linear momentum
2. The displacement of a body is given to be proportional to the cube of time elapsed. The magnitude of the acceleration of the body is - 1
 - (a) increasing with time
 - (b) decreasing with time
 - (c) constant but not zero
 - (d) zero
3. A particle, moving along straight line, has a velocity $v \text{ ms}^{-1}$, when it has covered a distance of x meter. These two quantities are connected by the relation $v = (49+x)^{1/2}$. Its acceleration is - 1
 - (a) 2 ms^{-2}
 - (b) 7 ms^{-2}
 - (c) 1 ms^{-2}
 - (d) 0.5 ms^{-2}
4. Vectors A and B includes an angle θ between them. If $(A+B)$ and $(A-B)$ respectively subtend angles α and β with A, then $(\tan \alpha + \tan \beta)$ is given by - 1
 - (a) $(AB \sin \theta)/(A^2 + B^2 \cos^2 \theta)$
 - (b) $(2AB \sin \theta)/(A^2 - B^2 \cos^2 \theta)$
 - (c) $(A^2 \sin 2\theta)/(A^2 + B^2 \cos^2 \theta)$
 - (d) $(B^2 \sin 2\theta)/(A^2 - B^2 \cos^2 \theta)$
5. The direction cosines of $\mathbf{i} + \mathbf{j} + \mathbf{k}$ are - 1
 - (a) 1,1,1
 - (b) 2,2,2
 - (c) $1/\sqrt{2}, 1/\sqrt{2}, 1/\sqrt{2}$
 - (d) $1/\sqrt{3}, 1/\sqrt{3}, 1/\sqrt{3}$
6. Two billiard balls A and B, each of mass 50 g and moving in opposite direction with speed of 5 ms^{-1} each, collide and rebound with the same speed. What is the impulse imparted to each ball?
 - (a) 0.25 kgms^{-1}
 - (b) 0.5 kgms^{-1}
 - (c) 0.1 kgms^{-1}
 - (d) 0.125 kgms^{-1}
7. The minimum force required to start pushing a body up a rough (frictional coefficient μ) inclined plane is F_1 while the minimum force needed to prevent it from sliding down is F_2 . If the inclined plane makes an angle θ with the horizontal such that $\tan \theta = 2\mu$ then the ratio F_1/F_2 is -
 - (a) 4
 - (b) 1
 - (c) 2
 - (d) 3
8. Same energy is supplied to two different springs of spring constants in the ratio 9:16. The ratio of extensions created in two springs will be -
 - (a) 3 : 4
 - (b) 4 : 3
 - (c) 16 : 9
 - (d) 9 : 16
9. A 120 g mass has a velocity $\mathbf{v} = 2\mathbf{i} + 5\mathbf{j} \text{ ms}^{-1}$ at a certain instant. Its kinetic energy is -
 - (a) 3 J
 - (b) 4 J
 - (c) 5 J
 - (d) 1.74 J
10. Which of the following is the correct relation between linear velocity $\mathbf{v}$ and angular velocity $\boldsymbol{\omega}$ of a particle?
 - (a) $\mathbf{v} = \mathbf{r} \times \boldsymbol{\omega}$
 - (b) $\mathbf{v} = \boldsymbol{\omega} \times \mathbf{r}$
 - (c) $\boldsymbol{\omega} = \mathbf{r} \times \mathbf{v}$
 - (d) $\boldsymbol{\omega} = \mathbf{v} \times \mathbf{r}$
11. The radius of gyration of a solid sphere of mass M and radius R about its diameter is -
 - (a) $\sqrt{(4/5)} R$
 - (b) $\sqrt{(7/5)} R$
 - (c) $\sqrt{(2/5)} R$
 - (d) $\sqrt{(3/5)} R$

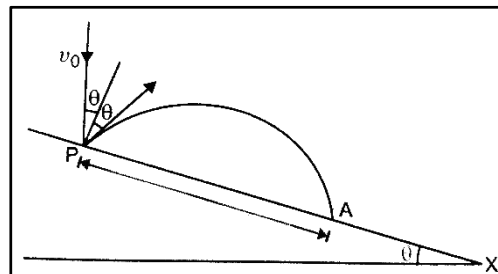
12. A satellite is orbiting the earth in a circular orbit of radius 'r'. Its -
 (a) kinetic energy varies as r (b) angular momentum varies as $1/\sqrt{r}$
 (c) linear momentum varies as $1/r$ (d) frequency of revolution varies as $1/\sqrt{r^3}$
 For Questions 13 to 16, two statements are given –one labelled **Assertion (A)** and other labelled **Reason (R)**. Select the correct answer to these questions from the options as given below.
- a) If both Assertion and Reason are true and Reason is correct explanation of Assertion.
 b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
 c) If Assertion is true but Reason is false.
 d) If both Assertion and Reason are false.
13. **Assertion(A)**: The position-time graph of a body moving uniformly in a straight line is parallel to position axis.
Reason(R): The position-time graph in a non-uniform motion gives constant velocity at all instants of time.
14. **Assertion(A)**: Magnitude of the resultant of two vectors may be less than the magnitude of either vector.
Reason(R): The resultant of two vectors is obtained by means of law of parallelogram of vectors.
15. **Assertion(A)**: Work done by the force of friction in moving a body around a close loop is zero.
Reason(R): Work done does not depend upon the nature of force.
16. **Assertion(A)**: Moon has no atmosphere.
Reason(R): The escape velocity for moon is less than that for the Earth.

SECTION – B

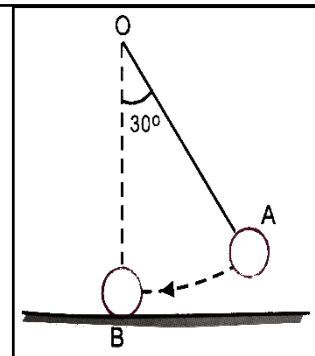
17. Deduce the dimensional formula for R, using the ideal gas equation $PV = nRT$.
18. The velocity of a particle depends on time as $v = 6t - 2t^2$. Find out the velocity of the particle at the instant its acceleration is zero.
19. The ceiling of a long hall is 45 m high. What is the maximum horizontal distance that a ball thrown with a speed of 40 ms^{-1} can go without hitting the ceiling of the hall?

OR

A particle falling vertically from a height hits a plane surface inclined to the horizontal at an angle θ with speed v_0 and rebounds elastically. Find the distance along the plane where it will hit second time.



20. The bob A of a pendulum released from 30° to the vertical hits another bob B of the same mass at rest on a table as shown in the figure beside. State, with reason, how high does the bob A rise after the collision? (Neglect the size of the bob and assume the collision to be elastic)



21. A metre stick is balanced on a knife edge at its centre. When two coins, each of mass 5 g are put one on top of the other at the 12.0 cm mark, the stick is found to be balanced at 45.0 cm. What is the mass of the metre stick?

OR

A hoop of radius 2m weighs 100kg. It rolls along a horizontal floor so that its centre of mass has a speed of 20ms^{-1} . How much work has to be done to stop it?

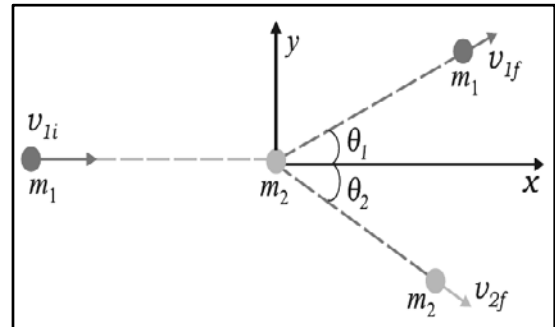
SECTION – C

22. What do you mean by least count? A vernier calliper has 20 divisions on the vernier scale which coincide with 19 small divisions on the main scale. One main scale division is 1 mm. Find the least count.
23. A person drops a coin in a well and hears the splash after 't' seconds. Considering the depth of the well to be 80 m and speed of sound inside the well to be 320 ms^{-1} , find the value of 't'? (Take $g = 10 \text{ ms}^{-2}$)
24. A particle of mass 2 kg moves with a velocity $\mathbf{v} = 2\mathbf{i} + 2\mathbf{j} - \mathbf{k}$. Find its angular momentum with respect to the origin when its position vector is given by $\mathbf{r} = \mathbf{i} + \mathbf{j}$.
25. The radius of curvature of a metre gauge (distance between two rails is 1 m) railway line at a place where the train is moving at 36 km/h is 50m. If there is no side thrust on the rails find the elevation of the outer rail above the inner rail.

OR

A stone of mass 1 kg tied to a light inextensible string of length $L = 10/3 \text{ m}$, whirling in a circular path in a vertical plane. The ratio of maximum tension to the minimum tension in the string is 4. Taking g to be 10 ms^{-2} , find the speed of the stone at the highest point of the circle.

26. Consider the collision depicted in figure beside to be between two billiard balls with equal masses $m_1 = m_2$. The first ball is called the cue while the second ball is called the target. The billiard player wants to 'sink' the target ball in a corner pocket, which is at an angle $\theta_2 = 37^\circ$. Assuming that the collision is elastic and that friction and rotational motion are neglected obtain θ_1 .



27. From a uniform disk of radius R , a circular hole of radius $R/2$ is cut out. The centre of the hole is at $R/2$ from the centre of the original disc. Locate the centre of gravity of the resulting flat body.
28. How far away from the surface of the Earth does the value of acceleration due to gravity reduce by 96% of its value on the surface of the Earth.

SECTION – D

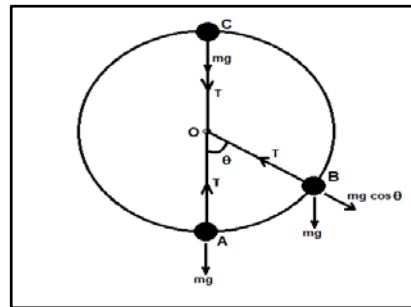
29. When a car negotiates a curved road, the force of friction between the road and the tyres provide the centripetal force required to keep the car in motion around the curve. A large amount of friction between the tyres and the road produces considerable wear and tear on the tyres. To avoid dependence on friction, the curved road is given an inclination sloping upwards towards the outer circumference. This reduces the wearing of the tyres because the horizontal component of the normal reaction provides the necessary centripetal force. The system of raising the outer edge of a curved road above the inner edge is called the banking of the curved road. When a vehicle negotiates a circular turn of radius r and is banked at an angle θ , the maximum safe velocity is given by

$$v_{\text{MAX}} = r \tan \theta, \text{ in the absence of frictional force}$$

$$v_{\text{MAX}} = \sqrt{rg(\mu_s + \tan \theta)/(1 - \mu_s \tan \theta)}, \text{ in presence of frictional force.}$$

- (i) If the radii of circular paths of two particles of the same masses are in the ratio of 16:25 then to have a constant centripetal force, their velocities should be in a ratio of -
 (a) 3 : 2 (b) 4 : 1 (c) 4 : 5 (d) 2 : 3
- (ii) The maximum speed with which a car can be driven round a curve of radius 16m without skidding (when $g = 10 \text{ ms}^{-2}$ and the coefficient of friction between rubber tyres and the roadway is 0.4)
 (a) 8 m/s (b) 10 m/s (c) 6 m/s (d) 4 m/s
- (iii) The force which is acting as a centripetal force when a vehicle takes a circular turn on a level road –
 (a) normal reaction (b) frictional force
 (c) component of normal force (d) accelerating force by vehicle
- (iv) For a car not to turn safely on a curved road –
 (a) speed to be low (b) distance between tyres be large
 (c) COG of the car to be low (d) frictional force to be low

30. A mass m is attached to a string of length r and is swung in a vertical circle. The mass is released from the top of the circle. The study focuses on the forces acting on the mass and the concepts of centripetal force, tension, and energy transformations.



- (i) Show that in vertical circular motion, the ratio of kinetic energy of a particle at highest point to that at lowest point is 1:5.
- (ii) What is the value of speed of the mass as the string become perfectly horizontal?
- (iii) Considering the minimum value of speed at the highest point, what will be the tension in the string at the bottom?

SECTION – E

31. (i) Derive an expression for the gravitational potential energy at a height 'h' above the surface of the Earth.
- (ii) Find the potential energy of a system of four particles placed at the vertices of a square of side l . Also obtain the potential at the centre of the square.

OR

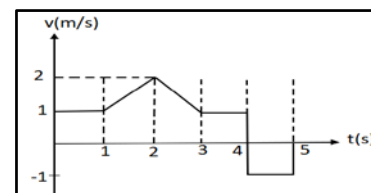
- (i) Define and derive an expression for the escape speed of an object on the surface of the Earth.
- (ii) Find the escape speed on the surface of a planet whose mass and radius are 10 times and 2.5 times respectively with respect to that of the Earth.
32. (i) Rain is falling vertically with a speed of 5 ms^{-1} . What is the relative velocity of rain with respect to an observer moving horizontally with a speed of 12 ms^{-1} ?
- (ii) A plane flying horizontally at 100 ms^{-1} at a height 1000 m releases a bomb. Find –
(a) time it takes to reach the ground and
(b) velocity with which bomb hits the target.

OR

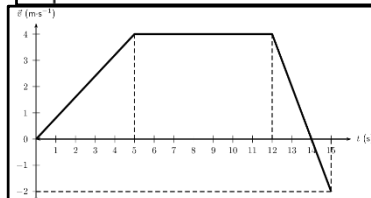
- (i) Define co-linear vector.
- (ii) If the magnitude of a vector is 5 units and is perpendicular to the vector $(\frac{5}{3}\mathbf{i} - \frac{5}{4}\mathbf{j})$, then find the vector.
- (iii) If $\mathbf{i}$ and $\mathbf{j}$ are unit vectors along X-axis and Y-axis respectively, then find the magnitude and direction of the vectors $(\mathbf{i} + \mathbf{j})$ and $(\mathbf{i} - \mathbf{j})$.
33. (i) A motor car moving at a speed of 72 kmh^{-1} cannot come to a stop in less than 3.0 s while for a truck this time is 5.0 s. On a highway the car is behind the truck both moving at 72 kmh^{-1} . The truck gives a signal that it is going to stop at emergency. At what distance the car should be from the truck so that it does not bump into (collide with) the truck. (Human response time is 0.5 s)

OR

- (i) The velocity-time graph of an object is shown in the figure beside. Find the displacement of the object between time 0 to 5 second.



- (ii) The velocity-time graph of a particle is shown in the figure beside. Plot its acceleration-time graph.



BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF YEARLY: (2025-2026)
BIOLOGY
CLASS: XI

Time: 3 Hours

Maximum Marks: 70

NAME: _____ SEC.: _____ ROLL NO.: _____

General Instructions:

Read the following instructions very carefully and strictly follow them:

- i. This question paper consists of **33** questions in 5 sections.
- ii. All questions are compulsory. However, an internal choice is provided in some questions. A student is expected to attempt only one of these questions.
- iii. **Section A** consists of 16 objective type questions carrying **1** mark each.
- iv. **Section B** consists of 5 Very Short questions carrying **2** marks each. Answers to these questions should be in the range of 30 to 50 words.
- v. **Section C** consists of 7 Short Answer type questions carrying **3** marks each. Answers to these questions should be in the range of 50 to 80 words.
- vi. **Section D** consists of 2 source-based/case-based units of assessment of **4** marks each with sub-parts.
- vii. **Section E** consists of 3 Long Answer type questions carrying **5** marks each. Answer to these questions should be in the range of 80 to 120 words.

Section A

Select and write the most appropriate option out of the four options given for each of the questions 1 - 16. There is no negative mark for incorrect response.

1. In multicellular organisms _____ refers to the production of progeny possessing features more or less similar to those of parents. [1]
 a) growth b) reproduction c) metabolism d) consciousness
2. *Mangifera indica* and *Azadirachta indica* belongs to _____. [1]
 a) same genus b) same species c) same phylum d) same region
3. Match the column A with column B and choose the correct option [1]

Column I	Column II
A. Porifera	i. Canal system
B. Aschelminthes	ii. Water-vascular system
C. Annelida	iii. Muscular pharynx
D. Arthropoda	iv. Jointed appendages
E. Echinodermata	v. Metameres

 a) A-ii, B-iii, C-v, D-iv, E-i
 b) A-ii, B-v, C-iii, D-iv, E-i
 c) A-i, B-iii, C-v, D-iv, E-ii
 d) A-i, B-v, C-iii, D-iv, E-ii
4. Rearrange the following zones as seen in the root in vertical section and choose the correct option. [1]

A. Root hair zone	B. Zone of meristems	C. Root cap zone
D. Zone of maturation	E. Zone of elongation	

 Options:
 a) C, B, E, A, D
 b) A, B, C, D, E
 c) D, E, A, C, B
 d) E, D, C, B, A
5. Intercalary meristems are of: [1]
 a) Permanent nature b) Temporary nature
 c) Some are permanent some temporary d) Some can grow due to Casparian strip
6. Plants having vascular tissue without seeds _____. [1]
 a) Angiosperm b) Pteridophytes c) Bryophytes d) Gymnosperms

7. Holdfast, stipe and frond constitute the plant body in case of: [1]
a) Rhodophyceae b) Chlorophyceae c) Phaeophyceae d) Cyanophyceae
8. Conifers can tolerate extreme environments because of -----, [1]
a) presence of vessels b) thick cuticle
c) superficial stomata d) broad hardy leaves
9. Which of the following pairs of animals has non glandular skin? [1]
a) Snake & Frog b) Chameleon & Turtle c) Frog & Pigeon d) Crocodile & Tiger
10. Body cavity is the cavity present between body wall and gut wall. In some [1]
animals the body cavity is not lined by mesoderm. Such animals are called
a) Acoelomates b) Pseudocoelomates c) Coelomates d) Haemocoelomates
11. Which one of the following statements is **incorrect**? [1]
a) Mesoglea is present in between ectoderm and endoderm in *Obelia*.
b) Exhibits radial symmetry *Asterias*.
c) *Fasciola* is a pseudocoelomate animal.
d) *Taenia* is a triploblastic animal.
12. Endosperm, a product of double fertilization in angiosperms is absent in the [1]
seeds of a) Coconut b) Orchids c) Maize d) Castor

Question No. 13 to 16 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- a) Both A and R are true, and R is the correct explanation of A.
b) Both A and R are true, and R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true.
13. **Assertion(A):** German Shepherd, Chihuahua, Pug, Basenji belongs to same species. [1]
Reason(R): Same taxon shares common characters and above-mentioned animals shows reproductive barrier.
14. **Assertion(A):** Members of Phaeophyceae vary in colour from olive green to [1]
various shades of brown.
Reason(R): Phaeophyceae possess chlorophyll a, c, carotenoids and xanthophylls.
15. **Assertion (A):** Frog help maintain ecological balance. [1]
Reason (R): The species which maintain ecological balance serve as an important link in the food chain and food web.
16. **Assertion (A):** Sponges have body organization of “cellular level”. [1]
Reason (R): There is some physiological division of labour.

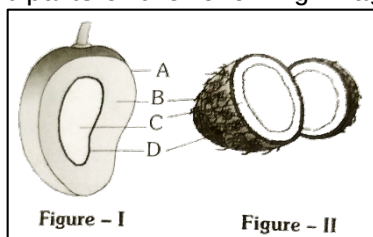
Section B

Question No. 17 to 21 are very short answer questions

17. Identify the organism. Explain the features of the [2]
class it belongs to.



18. Cyanobacteria and heterotrophic bacteria have been clubbed together in Eubacteria [2]
of kingdom Monera as per the “Five Kingdom Classification” even though the two
are vastly different from each other. Is this grouping of the two types of taxa in the
same kingdom justified? If so, why?
19. In which plant will you look for mycorrhiza and coralloid roots? Also explain what [2]
these terms mean.
20. Describe the different parts of the following images. [2]



21. **Attempt either option A or B** [2]
Explain the following terms:
a) Sensory papillae b) Ureotelic animal
OR
Define following terms
a) Foramen magnum b) Cutaneous respiration

Section C

Question No. 22 to 28 are short answer questions

22. A plant may have different names in different regions of the country or world. How do botanists solve this problem? Brinjal and potato belong to the same genus *Solanum*, but to two different species. What defines them as separate species? [3]
23. What observable features in *Trypanosoma* would make you classify it under certain Kingdom? Which kingdom do you classify it? Briefly describe about their locomotion by different structures. [3]
- OR**
24. Both viruses and viroids are intriguing sub-cellular infectious agents, smaller than bacteria, that rely on host cells for their replication. Compare among virus, viroids and prions. [3]
25. Heterospory i.e., formation of two types of spores – microspores and megaspores is a characteristic feature in the life cycle of a few members of pteridophytes and all spermatophytes. Do you think heterospory has some evolutionary significance in plant kingdom? Mannitol is the reserve food material of which group of algae? [3]
26. a) The mammals are considered as advanced animals. They consisting specific features in all their forms. Prepare a list of important features present in Class Mammalia with suitable example. [3]
b) Suggest some difference between eurochordates and cyclostomata.
27. a. Reticulate venation is found in dicot leaves while in monocot leaves venation is of parallel type. Mention exceptions to this generalization. [3]
b. You have heard about several insectivorous plants that feed on insects. *Nepenthes* or the pitcher plant is one such example, which usually grows in shallow water or in marsh lands. What part of the plant is modified into a 'pitcher'? How does this modification help the plant for food even though it can photosynthesize like any other green plant?
28. A student is observing a transverse section of a plant stem under a microscope. They notice the following features: [3]
 - Vascular bundles are scattered throughout the ground tissue.
 - Each vascular bundle is surrounded by a sclerenchymatous bundle sheath.
 - The vascular bundles are conjoint and closed.
 - Phloem parenchyma is absent.
 - Peripheral vascular bundles are generally smaller than the centrally located ones.

Based on the observed features:
a) Identify the type of plant from which this stem section was taken. Justify your answer with two reasons based on the observations.
b) What is the significance of the "closed" nature of the vascular bundles in this type of plant?
29. A biology student is dissecting a frog and carefully examining its digestive system. The teacher asks the student to identify and describe the function of the accessory digestive glands and the terminal part of the alimentary canal. The student also needs to relate these structures to the frog's carnivorous diet. [3]
a) Identify the main accessory digestive glands in the frog and state one function for each in digestion.
b) Explain how the frog's short alimentary canal is adapted for its carnivorous diet, considering the digestion process.

Section D

Question No. 29 to 30 are case-based/data -based questions with 3 to 4 short sub-parts.

Internal choice is provided in one of these sub-parts.

29. Read the following passage and answer the following questions given below: [4]

Aadhya, a student of class IX has brought a crab and an apple snail from the beach. She had identified both as members of Phylum Mollusca, as they have a shell. As a senior student of biology, help her to identify the animals correctly.

(a) Name the phylum, crab belongs to and that which apple snail belongs to. (1)

(b) Write any four differences between the animals of the two phyla. (2)

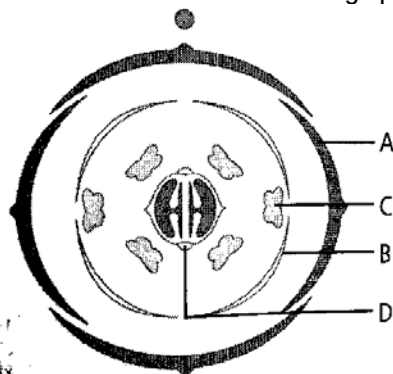
Attempt either subpart C or D.

(c) Name any two economically important Arthropods. (1)

OR

(d) Name two respiratory organs found in Arthropods.

30. Refer to the given diagram & answer the following questions [4]



a) Identify the given diagrams and the symbols for labels A, B, C & D. (1)

b) Write the formulae of the shown figure with the help of identified symbols. (2)

Attempt either subpart C or D.

c) Identify the aestivation as seen in B. (1)

OR

d) What is the function of D?

Section E

Question No. 31 to 33 are long answer questions.

31. Attempt either option A or B [5]

- A. a. Gametophyte is a dominant phase in the life cycle of a bryophyte. Explain.
b. How are the male and female gametophytes of pteridophytes and gymnosperms different from each other?

OR

- B. a. Comment on the lifecycle and nature of a fern prothallus.
b. Write two economic importance of any group of thallophyte.

32. Attempt either option A or B [5]

- A. a. "Aves are most adapted among the vertebrates for flying". Elaborate
b. Comment upon the habitats and external features of animals belonging to class, Amphibia and Reptilia.

OR

- B. a. Give six major differences between chordates and non-chordates.
b. Also compare between Chondrichthyes and Osteichthyes.

33. Attempt either option A or B [5]

- A. a. Discuss about different types of placentation with proper diagrams.

OR

- B. a. Compare among different types of inflorescences.
b. Discuss about different types aestivations in different types of flowers.

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION: (2025-2026)
CHEMISTRY
CLASS: XI

Time: 3 Hours

Maximum Marks: 70

NAME: _____ SEC.: _____ ROLL NO.: _____

General Instructions:

Read the following instructions very carefully and strictly follow them:

1. There are **33** questions in this question paper with internal choice.
2. **SECTION A** consists of 16 multiple-choice questions carrying **1** mark each.
3. **SECTION B** consists of 5 very short answer questions carrying **2** marks each.
4. **SECTION C** consists of 7 short answer questions carrying **3** marks each.
5. **SECTION D** consists of 2 case-based question carrying **4** marks each.
6. **SECTION E** consists of 3 long answer questions carrying **5** marks each.
7. **All questions are compulsory.**
8. **Use of log tables and calculators is not allowed.**

Section A

The following questions are multiple -choice questions with one correct answer. Each question carries 1 mark. There is no internal choice in this section.

1. How many molecules of ethane will be there in 3 moles of ethane? 1
 (a) 6.02×10^{23} (b) 1.8066×10^{24} (c) 18.066×10^{24} (d) 1.8066×10^{23}
2. If the density of a solution is 3.12 g ml^{-1} , the mass of 1.5 ml solution is 1
 (a) 4.68 g (b) 46.8 g (c) $4.68 \times 10^{-3} \text{ g}$ (d) $4.68 \times 10^3 \text{ g}$
3. The number of radial nodes for 3p orbital is 1
 (a) 4 (b) 3 (c) 2 (d) 1
4. The pair of atoms having same electronic configuration is 1
 (a) Cr^{3+} , Mn^{2+} (b) Fe^{3+} , Mn^{2+} (c) Fe^{3+} , Co^{2+} (d) Sc^{3+} , Cr^{2+}
5. The most electronegative elements are placed in _____ group. 1
 (a) 1 (b) 2 (c) 17 (d) 18
6. An element belongs to 3rd period and group 13 of the periodic table. Which of the following properties will be shown by the elements? 1
 (a) Liquid, non-metallic (b) Liquid, metallic
 (c) Solid, non-metallic (d) Solid, metallic
7. Which has same hybridisation? 1
 (a) AlCl_3 , $[\text{AlCl}_4]^-$ (b) BF_3 , $[\text{BF}_4]^-$ (c) NH_3 , $[\text{NH}_4]^+$ (d) NO_2 , $[\text{NO}_2]^+$
8. Which of the following is diamagnetic? 1
 (a) N_2 (b) O_2 (c) N_2^- (d) O_2^-
9. Which of the following is **not** an extensive property? 1
 (a) Mass (b) Volume (c) Pressure (d) Enthalpy
10. For the reaction $\text{S (s)} + \text{O}_2(\text{g}) \rightarrow \text{SO}_2(\text{g})$ 1
 (a) $\Delta H > \Delta U$ (b) $\Delta H < \Delta U$ (c) $\Delta H = \Delta U$ (d) Can't be determined
11. Nucleophile is a species that contains 1
 (a) a pair of electrons to donate (b) positive charge
 (c) electron deficient centre (d) a pair of electrons to accept
12. Which of the following groups show +R effect? 1
 (a) $-\text{COOH}$ (b) $-\text{CHO}$ (c) $>\text{C}=\text{O}$ (d) $-\text{OCOR}$

Question No. 13 to 16 consist of two statements – Assertion (A) and Reason (R).

Answer these questions selecting the appropriate option given below:

- a) Both A and R are true, and R is the correct explanation of A.
 - b) Both A and R are true, and R is not the correct explanation of A.
 - c) A is true but R is false.
 - d) A is false but R is true.
13. **Assertion (A):** Empirical formula gives the simplest whole number ratio of various atoms in a compound. 1

Reason (R):

- It gives the molecular formula of the compound by multiplying with the integer.
14. **Assertion (A):** BeF_2 is linear while SF_2 is angular though both are triatomic. 1
Reason (R): Both Be and S has lone pairs of electrons.
15. **Assertion (A):** Combustion of all organic compounds is an exothermic reaction. 1
Reason (R): The enthalpies of all elements in their standard state are zero.
16. **Assertion (A):** The IUPAC name of $\text{HO}-\text{CH}_2-\text{CH}_2-\text{COOH}$ is 3-hydroxypropanoic acid. 1
Reason (R): The compound has two functional groups alcohol and carboxylic acid.

Section B

This section contains 5 questions with internal choice in one question. The following questions are very short answer type and carry 2 marks each.

17. Calculate the mole fraction of ethanol if 9.2 g of it is mixed with 1.8 g of water. 2
18. Write the electronic configuration of Cr ($Z=24$) & Co^{3+} ($Z=27$) and also calculate the number of unpaired electron(s) present in each. 2
19. BF_3 molecule is non-polar but IF_3 molecule is polar though both are tetra-atomic molecule. Explain. 2
20. Differentiate between open and close system with example. 2
21. **Attempt either option A or B** 2
- A. Write IUPAC names and draw bond line structures of the following molecules:
 (i) $\text{CH}_3\text{CH}(\text{OH})\text{CH}=\text{CHCH}_3$ (ii) $\text{CH}_3\text{CH}=\text{CHC}\equiv\text{CCH}_3$
- OR**
- B. Give condensed formulas and bond line structures of the following:
 (i) 3-hydroxybutanoic acid (ii) 4-methylpentyne

Section C

This section contains 7 questions with internal choice in one question. The following questions are short answer type and carry 3 marks each.

22. A compound contains 4.07% hydrogen, 24.27% carbon and 71.65% chlorine. Its molar mass is 98.96g. What are its empirical and molecular formula? 3
23. 20g of CaCO_3 and 20g of H_2SO_4 react to give CaSO_4 along with water and CO_2 . 3
 (i) Determine the limiting reagent for the above reaction.
 (ii) How much CaSO_4 will be formed?
 (iii) If 1 mole of gas occupies 22.4 L at STP, then calculate the volume of CO_2 evolved in the above reaction.
 [Ca=40, C=12, O=16, H=1, S=32]
24. State de Broglie equation. Calculate the wavelength of a tennis ball of mass 60g moving with a velocity of 10 m/s. 3
25. Explain the following: 3
 (i) Second electron gain enthalpy of oxygen is positive.
 (ii) First ionisation enthalpy of Beryllium is greater than Boron.
 (iii) Fluorine is more reactive than chlorine.
26. Predict hybridisation and shape of the following molecule with the help of VSEPR theory: 3
 (i) XeOF_4 (ii) $[\text{PCl}_4]^+$ (iii) TeCl_4
27. **Attempt either option A or B** 3
- A. The standard molar heat of formation of ethane, carbon dioxide and water vapour are -21.1, -94.1 and -68.3 kcal respectively. Calculate the standard molar heat of combustion of ethane.
- OR**
- B. A gas absorbs 120 J of heat and expands against the external pressure of 1.1 atm from a volume of 0.5 L to 2.0 L. What is the change in internal energy?
28. What type of structural isomerism is observed by the following pairs? 3
 (i) Ethoxy ethane and methoxy propane
 (ii) Acetone and propanal
 (iii) 2-methylbutene and 2-methylbut-2-ene

Section D

The following questions are case -based questions. Each question has an internal choice and carries 4 (1+1+2) marks each. Read the passage carefully and answer the questions that follow.

29. In the modern periodic table, properties like atomic size, ionization enthalpy, and electronegativity show periodic trends. As you move across a period from left to right, the atomic size decreases and ionization enthalpy increases. These trends help in predicting the reactivity and properties of elements. 4
- (i) Which element has the highest ionization enthalpy in Period 2?
(a) Fluorine (b) Oxygen (c) Neon (d) Nitrogen
- (ii) Which of the following decreases across a period?
(a) Ionization energy (b) Atomic radius
(c) Electronegativity (d) Nuclear charge
- Attempt either option (iii) or (iv)**
- (iii) How does electronegativity change down a group? **OR**
- (iv) Compare the ionization enthalpy of Na and K.
30. A student performs an experiment where 100 mL of 1 M HCl is mixed with 100 mL of 1 M NaOH in a calorimeter. The temperature of the solution rises from 25°C to 32.4°C. The student concludes that a chemical reaction has released energy in the form of heat. According to the First Law of Thermodynamics, energy cannot be created or destroyed, only transformed. 4
- (Assume specific heat of solution = 4.18 J/g°C, and density = 1 g/mL)
- (i) What kind of thermodynamic process is this reaction?
(a) Endothermic (b) Isothermal (c) Exothermic (d) Adiabatic
- (ii) State the First Law of Thermodynamics in terms of internal energy.
- Attempt either option (iii) or (iv)**
- (iii) Calculate the heat released during the above reaction. **OR**
- (iv) If the process is carried out in a closed container at constant volume, what is the relation between heat and internal energy?

Section E

The following questions are long answer type and carry 5 marks each. All the questions have an internal choice each.

31. **Attempt either option A or B** 5
- A.(i) Calculate the wave number for the longest wavelength transition in the Balmer series of atomic hydrogen.
- (ii) Calculate the radius of Bohr's fifth orbit for hydrogen atom.
- (iii) What is the maximum number of emission lines when the excited electron of a H-atom in $n=6$ drops to the ground state?
- OR**
- B.(i) Define electromagnetic spectrum.
- (ii) What is the range of red light and blue light in the visible spectrum?
- (iii) Calculate the wavelength of light, which has a frequency of 300 Hz.
32. **Attempt either option A or B** 5
- A.(i) Write the complete sequence of energy levels in the increasing order of energy in the molecule of N_2 . Compare the relative stability and magnetic behaviour of the following species:
 N_2, N_2^+, N_2^{2+}
- (ii) Explain- Dipole moment of NH_3 is greater than that of NF_3 though N-F bond is more polar than N-H bond.
- OR**
- B.(i) Write the complete sequence of energy levels in the increasing order of energy in the molecule of O_2 . Compare the relative stability and magnetic behaviour of the following species:
 O_2, O_2^+, O_2^-
- (ii) Explain- He_2 does not exist but He_2^+ exists.

33. **Attempt either option A or B**

- A.(i) What is resonance effect? Explain positive resonance effect with the help of aniline example.
- (ii) Arrange the following carbocations in increasing order of their stability:
 $(\text{CH}_3)_3\text{C}^+$, CH_3^+ , $(\text{CH}_3)_2\text{CH}^+$, CH_3CH_2^+
- (iii) Select the nucleophiles from the following:
 BF_3 , H_2O , HO^- , H_3O^+

OR

- B.(i) What is electromeric effect? Explain negative electromeric effect with suitable example.
- (ii) Draw the structure and write IUPAC name of chain isomer of butane.
- (iii) Select the electrophiles from the following:
 BF_3 , H_2O , HO^- , H_3O^+

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION: (2025–2026)
ENGLISH CORE
CLASS: XI

Time: 3 Hours

Maximum Marks: 80

NAME: _____ SEC.: _____ ROLL NO.: _____

General Instructions:

Read the following instructions very carefully and strictly follow them:

i. This question paper has 15 questions. All questions are compulsory.

ii. This question paper contains three sections:

Section A: Reading Skills

Section B: Grammar & Writing Skills

Section C: Literature

iii. Attempt all questions based on specific instructions for each part. Write the correct question number and part thereof in your answer sheet.

iv. Separate instructions are given with each question/part, wherever necessary.

v. Adhere to the prescribed word limit while answering the questions.

SECTION A: READING SKILLS (26 marks)**1. Read the following text.****10**

- (1) No student of a foreign language needs to be told that grammar is complex. By changing word sequences and by adding a range of auxiliary verbs and suffixes, we are able to communicate tiny variations in meaning. We can turn a statement into a question, state whether an action has taken place or is soon to take place, and perform many other word tricks to convey subtle differences in meaning. Nor is this complexity inherent to the English language. All languages, even those of so-called 'primitive' tribes, have clever grammatical components. The Cherokee pronoun system, for example, can distinguish between 'you and I', 'several other people and I' and 'you, another person and I'. In English, all these meanings are summed up in the one, crude pronoun 'we'. Grammar is universal and plays a part in every language, no matter how widespread it is. So the question which has baffled many linguists is - who created grammar?
- (2) At first, it would appear that this question is impossible to answer. To find out how grammar is created, someone needs to be present at the time of a language's creation, documenting its emergence. Many historical linguists are able to trace modern complex languages back to earlier languages, but in order to answer the question of how complex languages are actually formed, the researcher needs to observe how languages are started from scratch. Amazingly, however, this is possible.
- (3) Some of the most recent languages evolved due to the Atlantic slave trade. At that time, slaves from a number of different ethnicities were forced to work together under colonizer's rule. Since they had no opportunity to learn each other's languages, they developed a make-shift language called pidgin. Pidgins are strings of words copied from the language of the landowner. They have little in the way of grammar, and in many cases, it is difficult for a listener to deduce when an event happened, and who did what to whom. Speakers need to use circumlocution in order to make their meaning understood. Interestingly, however, all it takes for a pidgin to become a complex language is for a group of children to be exposed to it at the time when they learn their mother tongue. Slave children did not simply copy the strings of words uttered by their elders; they adapted their words to create a new, expressive language. Complex grammar systems which emerge from pidgins are termed creoles, and they are invented by children.
- (4) Further evidence of this can be seen in studying sign languages for the deaf. Sign languages are not simply a series of gestures; they utilise the same grammatical machinery that is found in spoken languages. Moreover, there are many different languages used worldwide. The creation of one such language was documented quite recently in Nicaragua. Previously, all deaf people were isolated from each other, but in

1979 a new government introduced schools for the deaf. Although children were taught speech and lip reading in the classroom, playgrounds, they began to invent their own sign system, using the gestures that they used at home. It was basically a pidgin. Each child used the signs differently, and there was no consistent grammar. However, children who joined the school later, when this inventive sign system was already around, developed a different sign language. Although it was based on the signs of the older children, the younger children's language was more fluid and compact, and it utilised a large range of grammatical devices to clarify meaning. What is more, all the children used the signs in the same way. A new creole was born.

- (5) Some linguists believe that many of the world's most established languages were creoles at first. The English past tense-ed ending may have evolved from the verb 'do' 'It ended' may once have been 'It end-did'. Therefore, it would appear that even the most widespread languages were partly created by children. Children appear to have innate grammatical machinery in their brains, which springs to life when they are first trying to make sense of the world around them. Their minds can serve to create logical, complex structures, even when there is no grammar present for them to copy.

Answer the following questions, based on the given passage.

- i. Why did the narrator say that it is impossible to say who created grammar? 1
- ii. The language created by children of slaves with complex grammar system is called _____. 1
A. Pidgin B. Creoles C. Cherokee D. English
- iii. All the following sentences about Nicaragua sign language are true EXCEPT: 1
A. The language has been created since 1979.
B. The language is based on speech and lip reading.
C. The language incorporates signs which children used at home.
D. The language was perfected by younger children.
- iv. Sign language is not simply a series of gestures because _____. 1
A. they were developed from the English language
B. they incorporated the same grammatical system found in spoken languages.
C. they were basically pidgin
D. children developed it with lip reading system
- v. What was the main disadvantage of the sign language used in the schools for deaf in 1979? 1
- vi. Which word in para 3 has the same meaning as "extrapolate"? 1
A. Evolved B. Opportunity C. Complex D. Deduce
- vii. "Some of the most recent languages evolved due to the Atlantic slave trade." Justify this statement. 2
- viii. How do children play a role in the creation of a language? 1
- ix. Complete the analogy with one word from paragraph 4. 1
Visual: Blind:: Auditory: _____
A. Silence B. Deaf C. Sign D. Gestures

2. Read the following text. 8

- (1) Today, India looks like it is on course to join the league of developed nations. It is beginning to establish a reputation not just as the technology nerve centre and back-office for the world, but also as its production centre. India's secularism and democracy serve as a role model to other developing countries. There is great pride in an Indian who easily integrates with a global economy, yet maintains a unique cultural identity.
- (2) But what is breathtaking is India's youth. Despite being an ancient civilization that traces itself to the very dawn of human habitation, India is among the youngest countries in the world. More than half the country is under 25 years of age and more than a third is under 15 years of age.
- (3) Brought up in the shadow of the rise of India's service industry boom, this group feels that it can be at least as good, if not better than anyone else in the world. This confidence has them demonstrating a great propensity to consume, throwing away

ageing ideas of asceticism and thrift. Even those who do not have enough to consume today feel that they have the capability and opportunity to do so.

- (4) The economic activity created by this combination of a growing labour pool and rising consumption demand is enough to propel India to double-digit economic growth for decades. One just has to look at the impact that the baby boomers in the US had over decades of economic activity, as measured by equity and housing prices. This opportunity also represents the greatest threat to India's future. If the youth of India is not properly educated and if there are not enough jobs created, India will lose its opportunity forever. There are danger signs in abundance.
- (5) Fifty-three per cent of students in primary schools drop out, one-third of children in Class V cannot read, three-quarters of schools do not have a functioning toilet, female literacy is only 45 per cent and 80 million children in the age group of 6-14 do not even attend school.
- (6) India's IT and BPO industries are engines of job creation, but they still account for only 0.2 per cent of India's employment. The country has no choice but to dramatically industrialize and inflate its domestic economy. According to a forecast by the Boston Consulting Group, more than half of India's unemployed within the next decade could be its educated youth. We cannot allow that to happen.
- (7) India is stuck in a quagmire of labour laws that hinder employment growth, particularly in the manufacturing sector. Inflexible labour laws inhibit entrepreneurship, so it is quite ironic that laws ostensibly designed to protect labour actually discourage employment.
- (8) Employment creation needs an abundant supply of capital. Controls on foreign investment have resulted in China getting five times the foreign direct investment, or an advantage of \$200 billion over the past five years. The growing interest in India by global private equity firms offers as well as they represent pools of patient and smart capital, but they too face many bureaucratic hurdles.
- (9) When it comes to domestic capital availability, budget deficits adding up to 10 per cent of the national GDP impede capital availability for investment and infrastructure.
- (10) Raising infrastructure spending, coupled with rapid privatization, may not only create employment but also address the growing gaps in infrastructure. China has eight times the highway miles and has increased roads significantly in the past few years, while India has only inched along. Freight costs at Indian ports are almost double the worldwide average, just to, give two examples.
- (11) Moreover, like the Lilliputians that kept the giant Gulliver tied down, there are some 30,000 statutes in India of which only a portion are even operational and these keep the employment creation engine tied down. Since there are no sunset provisions in any laws the regulatory morass only grows every year.
- (12) In the meantime, we as citizens of the world and descendants of India have to make a difference. We have to ensure that India and its youth attain that potential both through our business pursuits and the support of educational charities, on-the-ground proponents of participative democracy, as well as other deserving organizations and initiatives.
- (13) I believe that hope can triumph and that this can be India's century - not one that will happen as surely as the sun will rise each day, but one that many willing hands will need to create together.

Answer the following questions, based on the given passage.

- i. India is on its way to establish a reputation as _____. 1
 A. technology nerve centre B. back office to the world
 C. production centre D. all of these
- ii. Why is India amongst the youngest countries of the world? 2
- iii. "This confidence has them demonstrating a great propensity to consume" - the confidence referred here is: 1
 A. India being a young country.
 B. The feeling that India can be at least as good if not better than anyone else in the world.

- C. India being the world's back office.
D. India being the biggest spender.
- iv. The one factor that is obstructing the growth of employment in the manufacturing sector in India is: 1
A. Population growth. B. Uneducated youth.
C. Labour laws. D. Lack of investors.
- v. The narrator suggests _____ for creating more employment. 1
- vi. Synonym of the word 'morass' is _____. 1
A. Hiatus B. Remorse C. Quagmire D. Problem
- vii. According to the narrator, raising infrastructure spending and rapid privatization will create more employment opportunities. TRUE or FALSE. 1

3. Read the following text. 8

- (1) The hectic pace of city life and the rapidly changing lifestyles are adding up to cause an alarming increase in the incidence of heart attacks among the upwardly mobile youth in the city. Although presently this number is fairly small, there has been a rise in the occurrence levels. Earlier, heart attacks were not common among youth in the age group of 30 to 45 years.
- (2) One of the primary reasons for the rise in incidence of heart attack is because people here are genetically more vulnerable to heart ailments than the rest of the world. Another significant reason which contributes to increased risk of heart attacks among the youth is the unhealthy lifestyles. There has been a change in food habits, increase in stress levels, drastically changed living patterns with sedentary habits and erratic sleep. All this clubbed with a predisposition to heart attacks can further increase the risk.
- (3) Other equally contributory factors to heart attack risk are smoking, obesity, diabetes, hypertension, and of course, a family history. The onset of heart attack can be detected with a few visible warning signs like chest discomfort while walking, and/or shortness of breath etc. But it is important to note that many heart-attacks can be silent without any symptoms or forewarning.
- (4) Although people who are genetically predisposed to heart attacks cannot actually reverse the risk, they can make amends by trying to lead a sensible life style by making a few modifications in their food and exercise habits.
- (5) One of the most important preventive measures is to stop smoking. Since work-related stress is common among the youth today, it is another vital reason to trigger heart attacks. Youth should learn to de-stress and relax more often.
- (6) Unhealthy food habits and a sedentary lifestyle can lead to obesity and a chain of other problems. Working out or adopting a disciplined exercise regimen can help in keeping weight in check. Brisk walking is another very good option. Everybody should follow a regular health screening to rule out diabetes and hypertension, and do a stress test, undergo a lipid profile test and check their body mass index regularly.
- A. On the basis of your understanding of the above passage, make notes on it using headings and subheadings. Use recognizable abbreviations (wherever necessary- minimum four) and a format you consider suitable. Also, supply an appropriate title to it. 5
- B. Write a summary of the passage in about 80 words. 3

SECTION B: GRAMMAR & WRITING SKILLS (23 marks)

- 4. Do as directed: 1x7 = 7**
- i. Reshma told me (P) / that she wrote a letter (Q) / to her superior(R) / for a certain reason (S). (Choose the part of the sentence that has an error)
A. P B. Q C. R D. S
- ii. It began to rain. We took our raincoats. (Combine the sentence using 'no sooner...than')
- iii. P: the lines of
Q: when ambition is
R: compromised by greed

S: ethics often get blurred

(Rearrange the parts of the sentence in correct order)

- iv. The patient died. Then the doctor arrived. (Combine the sentence using Past Perfect Tense)
- v. This is the best movie I have ever seen. (Change into positive degree)
- vi. I could not convince (P)/ them because they (Q)/ persisted to suggest (R)/ that I was lying (S). (Choose the part of the sentence that has an error)
A. P B. Q C. R D. S
- vii. Very few cities are as big as Mumbai. (Change into comparative degree)

5. Attempt **ANY ONE** of two, in about 50 words. 3

- A. You are Sumit/ Sumita. As an environmental activist, make a poster urging people to "Say No to Plastic" and adopt sustainable alternatives.

OR

- B. You are Vinayak/Revati from Green School, Thiruvananthapuram. Create a poster on "Responsible Use of Social Media", promoting cyber safety, balance, and digital etiquette.

6. Attempt **ANY ONE** of two, in about 50 words. 3

- A. You have a fully furnished 2 BHK flat in South Delhi available for rent. Draft an advertisement to be published in 'The Times of India' newspaper. You are Alia/ Ali.

OR

- B. You are the HR Manager of a reputed publishing company in Delhi. Draft a classified advertisement for the post of an editor, specifying qualifications and experience required. You are Sameera/Sameer.

7. Attempt **ANY ONE** of two, in about 120-150 words. 5

- A. Draft a speech on the topic: "Honesty is the Best Policy – A Value for Life" to be delivered during the school's value education week. You are Amina / Aman.

OR

- B. You are Karan /Karuna. You are asked to speak at a career guidance seminar in your school. Draft a speech on: "The Importance of Skill-Based Learning in the 21st Century." You can use the following value points:

- Enhances Employability
- Fosters critical thinking and problem-solving skills
- Encourages Lifelong Learning
- Bridges Education and Industry Gap

8. Attempt **ANY ONE** of two, in about 120-150 words. 5

- A. "Moral values cannot be taught, they must be lived." Draft a debate in favour of or against this statement. You are Suresh/ Smita.

OR

- B. Draft a debate in favour of or against this statement: "Board exams should be scrapped in favour of continuous assessment."

SECTION C: LITERATURE TEXTBOOK AND SUPPLEMENTARY READING TEXT (31 marks)

9. Read the given extracts and answer the questions for **ANY ONE** of the two, given. 3

- A. "And who art thou? said I to the soft-falling shower,
Which, strange to tell, gave me an answer, as here translated:
I am the Poem of Earth, said the voice of the rain,
Eternal I rise impalpable out of the land and the bottomless sea..."
(The Voice of the Rain)

- i. Assertion (A): The poet calls the rain "the Poem of Earth" to emphasize its natural rhythm and life-giving presence. 1

Reason (R): Rain is described as eternal and impalpable to highlight its unseen connection between earth and sea.

Choose the correct option:

- A. Both A and R are true, and R is the correct explanation of A.
B. Both A and R are true, but R is not the correct explanation of A.
C. A is true, but R is false. D. A is false, but R is true.

- ii. Which of the following statements accurately reflects the meaning and tone of the given extract? 1
1. The rain has been personified to suggest a mystical connection between nature and the poet.
 2. The poem reflects the rain's destructive nature and its unpredictability.
 3. The tone is philosophical and symbolic, suggesting a cycle of return and renewal.
 4. The poet emphasizes industrial development over natural processes.

Select the correct option given below:

- A. 1 and 2 B. 1 and 3 C. 2 and 4 D. 3 and 4
- iii. "Eternal I rise impalpable out of the land and the bottomless sea" 1
- Choose the line from below that does not use the same poetic device as the one in the line given above:
- A. "The wind whispered secrets through the forest."
 - B. "Like a silver snake, the river coiled through the valley."
 - C. "Hope is the thing with feathers that perches in the soul."
 - D. "The thunder roared like a lion in the sky."

OR

- B. When did my childhood go?
Was it the day I ceased to be eleven,
Was it the time I realised that Hell and
Heaven,
Could not be found in Geography,
And therefore could not be,
Was that the day!
(Childhood)

- i. Assertion (A): The poet implies that childhood ends when one stops accepting beliefs blindly. 1
- Reason (R): The realization that Hell and Heaven are not real places signifies the poet's spiritual disillusionment.
- A. Both A and R are true, and R is the correct explanation of A.
 - B. Both A and R are true, but R is not the correct explanation of A.
 - C. A is true, but R is false.
 - D. A is false, but R is true.

- ii. Antithesis is where two opposite notions are used together in a sentence in a poem. 1
- Where did the poet use Antithesis in the following options?
- A. was that the day B. ceased to be eleven C. Hell and Heaven D. found in Geography

- iii. The poet suggests that the loss of childhood is marked by growing _____, as 1
- he begins to question traditional beliefs and recognize hypocrisy.
- A. arrogance B. innocence C. curiosity D. rationality

10. Read the given extracts and answer the questions for **ANY ONE** of the two, given. **3**

- A. "She was an old woman. She had been old and wrinkled for the twenty years that I had known her. People said that she once was young and pretty and had even had a husband, but that was hard to believe. My grandmother, like everybody's grandmother, was an expanse of pure white serenity breathing peace and contentment."
(The Portrait of a Lady)

- i. Assertion (A): The narrator finds it hard to believe that his grandmother was once young and married. 1
- Reason (R): The grandmother's present appearance and calm demeanour overshadow any memory of her past.
- A. Both A and R are true, and R is the correct explanation of A.
 - B. Both A and R are true, but R is not the correct explanation of A.
 - C. A is true, but R is false.
 - D. A is false, but R is true.

- ii. Choose the sentence that uses a word with a similar meaning to "serenity": 1
- A. The teacher scolded the students with quiet rage.
 - B. The monk meditated in complete tranquillity.
 - C. She smiled with a hint of mischief.

- D. The wind roared through the canyon violently.
- iii. What does the phrase “an expanse of pure white serenity” most likely symbolize? 1
- A. The physical frailty of old age
- B. Her religious devotion and moral superiority
- C. The timeless, peaceful aura she exudes
- D. Her dull and colourless personality

OR

- B. Wavewalker rode out the storm and by the morning of January 6, with the wind easing, I tried to get a reading on the sextant. Back in the chartroom, I worked on wind speeds, changes of course, heights of waves, and estimated our position. The best I could determine was that we were somewhere in 150,000 kilometres of ocean looking for a 65-kilometre-wide island.
- (We're Not Afraid to Die if We Can All Be Together)
- i. Assertion (A): The narrator's effort to estimate their location despite the storm shows resilience and leadership. 1
- Reason (R): The narrator stopped navigating due to fear and relied solely on luck.
- A. Both A and R are true, and R is the correct explanation of A.
- B. Both A and R are true, but R is not the correct explanation of A.
- C. A is true, but R is false. D. A is false, but R is true.
- ii. Choose the sentence that uses a word with the same meaning as “estimated”: 1
- A. He measured the room with a laser for exact dimensions.
- B. She guessed how many jellybeans were in the jar.
- C. The accountant audited the records thoroughly.
- D. They confirmed the number after checking twice.
- iii. Which caption best matches the extract above? 1
- A. “Adventure awaits the fearless family.”
- B. “A day at sea: calm above, calm within.”
- C. “Fighting the odds: One family's test of courage and skill.”
- D. “Setting sail into the sunset of dreams.”

11. Read the given extracts and answer the questions for **ANY ONE** of the two, given. **4**

- A. Mrs. Pearson: They call you Pompy-ompy Pearson because they think you're so slow and pompous.
- George: [horrified] Never!
- Mrs. Pearson: It's always beaten me why you should want to spend so much time at a place where they're always laughing at you behind your back and calling your names. Leaving your wife at home, night after night. Instead of going out with her, who doesn't make you look a fool...
- (Mother's Day)
- i. Assertion (A): Mrs. Pearson accuses her family of taking her for granted. 1
- Reason (R): She believes her family is intentionally unkind and cruel to her.
- A. Both A and R are true, and R is the correct explanation of A.
- B. Both A and R are true, but R is not the correct explanation of A.
- C. A is true, but R is false. D. A is false, but R is true.
- ii. Which of the following statements best reflects the deeper messages in the extract? 1
1. Mrs. Pearson is finally voicing long-suppressed frustrations.
2. George Pearson is defensive because he feels guilty.
3. The drama reveals the invisibility of domestic labour.
4. The characters desire a return to traditional gender roles.
- A. 1, 2 and 3 B. 2, 3 and 4 C. 1 and 3 D. 1, 3 and 4
- iii. Which caption best suits this scene in the context of the play? 1
- A. “Her silence fed their comfort.”
- B. “A mother's place is in the home — or so they believed.”
- C. “Love, like labour, goes unnoticed until withdrawn.”
- D. “She stood where tradition placed her — until she chose otherwise.”
- iv. Infer the playwright's purpose of including some words in brackets. 1

OR

- B. "It wasn't morning yet, but it was summer and with daybreak not many minutes around the corner of the world, it was light enough for me to know I wasn't dreaming."
"My cousin Mourad was sitting on a beautiful white horse. I stuck my head out of the window and rubbed my eyes."

(The Summer of the Beautiful White Horse)

- i. Assertion (A): The narrator doubts whether what he sees is real. 1
Reason (R): Mourad is known for being practical and responsible.
A. Both A and R are true, and R is the correct explanation of A.
B. Both A and R are true, but R is not the correct explanation of A.
C. A is true, but R is false. D. A is false, but R is true.
- ii. Choose the sentence that uses a word with a similar meaning to "daybreak": 1
A. The storm rolled in just before sunset.
B. They started their trek at the crack of dawn.
C. She waited for midnight in complete silence.
D. He watched the moon rise over the hills.
- iii. What does the narrator's reaction to Mourad riding a white horse reveal about his personality? 1
A. He is shocked because he knows Mourad is afraid of animals.
B. He is rational and morally aware, yet deeply interested.
C. He is indifferent and easily influenced by others.
D. He is quick to report wrongdoing, even by family.
- iv. In the story, 'the white horse' becomes a symbol of _____, reflecting the cousins' desire to transcend their modest circumstances without losing their moral compass. 1
A. betrayal B. poverty C. freedom D. fear

12. Answer **ANY ONE** question from question no. i. and ii and **ANY ONE** from question no. iii and iv, in about 40-50 words. **3x2**
=6

- i. What does the family's response to the crisis reveal about their values and mindset? (We're Not Afraid to Die if We Can All Be Together)

OR

- ii. The grandmother remained composed and accepting of her changing role in the family. What lessons can we learn from her response to ageing and change? (The Portrait of a Lady)
- iii. How does the poem highlight the contrast between transience and permanence? (A Photograph)

OR

- iv. The poet says childhood has gone to "some forgotten place." What do you think he means by that, and do you believe childhood can be rediscovered in any way? (Childhood)

13. Answer **ANY ONE** of the following two questions, in about 40-50 words. **3x1**
=3

- i. How does the story depict the impact of war on relationships and trust? (The Address)
- ii. How does the story portray the bond between Aram and Mourad? (The Summer of the Beautiful White Horse)

14. Answer **ANY ONE** of the following two questions, in about 120-150 words **6**

- A. Discuss how the poet uses imagery and sound to create a vivid contrast between barrenness and liveliness in the poem. How does this contrast reflect the cycle of life? (The Laburnum Top)

OR

- B. Imagine you are the narrator. Write a diary entry on the night after the storm, expressing your fears, hopes, and thoughts about your family and survival. (We're not afraid to die ... if we can all be together)

15. Answer **ANY ONE** of the following two questions, in about 120-150 words. **6**

- A. The story shows human behaviour in times of crisis. What values are tested through the characters' actions? How does the story inspire readers to uphold integrity and empathy? (The Address)

OR

- B. "One cannot be taken for granted unless one allows it." Do you agree with the statement? Justify your answer using the character of Mrs. Pearson. (Mother's Day)

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION: (2025-2026)
INFORMATION TECHNOLOGY
CLASS: XI

Time: 3 Hours

Maximum Marks: 60

NAME: _____ **SEC.:** _____ **ROLL NO.:** _____

General Instructions:

1. Please read the instructions carefully.
2. This Question Paper consists of **24 questions** in two sections – **Section A & Section B.**
3. Section A has Objective type questions whereas Section B contains Subjective type questions.
4. **Out of the given (6 + 18 =) 24 questions, a candidate has to answer (6 + 11 =) 17 questions in the allotted (maximum) time of 3 hours.**
5. All questions of a particular section must be attempted in the correct order.

6. SECTION A - OBJECTIVE TYPE QUESTIONS (30 MARKS):

- i. This section has 06 questions.
- ii. There is no negative marking.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

7. SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):

- i. This section contains 18 questions.
- ii. A candidate has to do 11 questions.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

SECTION-A (OBJECTIVE TYPE QUESTIONS)

1. Answer any 4 out of the given 6 questions on Employability Skills: [1 × 4 = 4]

- (i) _____ is the force that drives you to do things.
(a) Regulation (b) Motivation (c) Management (d) Alignment
- (ii) S in SMART stands for
(a) Specific (b) Social (c) Start (d) Selection
- (iii) Why do we send e-mails?
(a) To reach on time (b) To share documents and files
(c) To talk to each other (d) To meet each other
- (iv) Which one is a positive facial expression?
(a) Staring hard (b) Nodding while listening
(c) Wrinkled forehead (d) Looking away from the speaker
- (v) Expand the term TEAM.
- (vi) Which communication style creates a win-win situation?

2. Answer any 5 out of the given 7 questions:

[1×5 = 5]

- (i) _____ is the main memory of the computer.
- (ii) In MySQL, there are _____ wild card characters for pattern match.
(a) 1 (b) 2 (c) 3 (d) 4
- (iii) The keyboard shortcut to display non-printing characters is:
(a) Ctrl + F8 (b) Ctrl + F9 (c) Ctrl + F10 (d) Ctrl + F11
- (iv) DBMS was first introduced in the year _____.
(a) 1960 (b) 1970 (c) 1980 (d) 1985
- (v) Define Operating System.
- (vi) What is the shortcut to move the cursor to the first cell in the sheet (A1)?
(a) Ctrl + End (b) Ctrl + Home (c) Home (d) End
- (vii) Charts are _____ representation of the data.
(a) Animated (b) Clipart (c) Pictorial (d) Text

3. Answer any 6 out of 7 given questions:

[1×6 = 6]

- (i) Convert 2 GB = ____ KB.
- (ii) Write down the syntax to view the structure of a table in MySQL.
- (iii) How many types of charts are there in OpenOffice Spreadsheet?
(a) 5 (b) 10 (c) 8 (d) 7
- (iv) ALTER TABLE is a type of _____ command.
- (v) The horizontal subset of the table is known as:
(a) row (b) tuple (c) both a and b (d) record
- (vi) Expand the following:
(i) SQL (ii) MICR (iii) OCR
- (vii) Define Primary Key.

4. Answer any 5 out of 6 given questions:

[1×5 = 5]

- (i) Define Alternate Key.
- (ii) Keyboard troubleshooting in wireless keyboards can be done by –
(a) Checking the cable (b) Charging the laptop battery
(c) Cleaning the keyboard (d) Changing the batteries
- (iii) Which of the following is known as software?
(a) Monitor (b) Keyboard (c) Set of Programs (d) Hard disk
- (iv) Which is the default vertical alignment?
(a) Left (b) Bottom (c) Top (d) Middle
- (v) _____ axis is known as category axis.
- (vi) In _____ chart values are not joined.
(a) Bar (b) Area (c) Line (d) Both b & d

5. Answer any 5 out of the given 6 questions:

[1×5 = 5]

- (i) Flash Drive is also known as _____ flash drive.
- (ii) Expand the following:
(a) EEPROM (b) CU
- (iii) When a chart object is placed on a worksheet along with the data it is known as ____ chart.
(a) Pie (b) Donut (c) Line (d) Embedded
- (iv) Define Chart Area.
- (v) A slide may **not** contain _____.
(a) Font Gallery (b) Chart (c) View (d) Image
- (vi) The _____ keyword is used to eliminate redundant data from display in SQL.

6. Answer any 5 out of the given 6 questions:

[1×5 = 5]

- (i) What are constants in MySQL?
- (ii) Write down the syntax to create a database in MySQL.
- (iii) True or False:
Alter is a DML command.
- (iv) The physical parts of a computer are known as _____.
- (v) MySQL is _____ case
(a) Sensitive (b) Insensitive (c) Dissentive (d) Presentive
- (vi) _____ represents a value that is unavailable, unassigned, unknown or unapplicable.

SECTION-B (SUBJECTIVE TYPE QUESTIONS)

Answer any 3 out of given 5 questions on Employability Skills

[2×3 = 6]

- 7. List any 4 C's of Communication.
- 8. What are the factors that influence Teamwork?
- 9. State the importance of Time Management.
- 10. How is Personal Hygiene important?
- 11. Differentiate Aggressive and Assertive communication.

Answer any 3 out of 5 questions

[2×3 = 6]

- 12. What is the function of Control Unit in CPU?
- 13. Differentiate RAM and ROM.
- 14. Define Legend.
- 15. Mention any two features of DBMS.
- 16. Name two DDL and two DML commands.

Answer any 2 out of 3 questions

[3×2 = 6]

- 17. Write any 3 services provided by the Operating System.
- 18. List any 3 components of chart in OpenOffice Calc.
- 19. Write down one difference between Primary Key, Candidate Key, and Alternate Key.

Answer any 3 out of 5 questions

[4×3 = 12]

20. Explain the block diagram of a computer.
21. Name and explain any 4 kinds of charts in OpenOffice Calc.
22. Given the table **CAR** having the following data:
Write queries for questions (i) to (iv).

Table: CAR

CCode	Car Name	Company	Colour	Capacity	Charges (₹/km)
S01	A-Star	Suzuki	Red	3	14
S03	Indigo	Tata	Silver	5	12
S02	Innova	Toyota	White	7	15
209	Qualis	Toyota	Silver	4	14
S140	Wagon-R	Suzuki	Red	4	35

- (i) Display all the details of cars having Capacity more than 3.
(ii) Delete the Capacity column.
(iii) Change the Charges to 13 where colour of the vehicle is red.
(iv) Display the CCode and Company of those cars which have company Toyota.

23. Write the MySQL command to create a table SPORTS with the following specifications:

Field Name	Data Type	Constraint
Sport-id	int	Primary Key
Sport-name	varchar(25)	
No. of Players	int	Not Null
Sports-Fees	float(9,2)	
Date-of-Event	date	

24. Name and explain any 4 MySQL data types.

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION: (2025-2026)
MATHEMATICS
CLASS: XI

Time : 3 Hours**Maximum Marks : 80****NAME: _____ SEC: _____ ROLL NO.: _____****General Instructions :**

1. The Question paper contains 38 questions. All questions are compulsory.
2. The question paper is divided into five sections-A,B,C,D and E.
3. In Section A, Question no. 1 to 18 are multiple choice questions(MCQs) with only one correct option and Question no. 19 and 20 are Assertion-Reason based questions of 1 mark each.
4. In Section B, Question no. 21 to 25 are Very Short Answer (VSA)- type questions, carrying 02 marks each.
5. In Section C, Question no. 26 to 31 are Short Answer (SA)- type questions, carrying 03 marks each.
6. In Section D, Question no. 32 to 35 are Long Answer (LA)- type questions, carrying 05 marks each.
7. In Section E, Question no. 36 to 38 are case study-based questions, carrying 04 marks each.
8. All Questions are compulsory. However, an internal choice has been provided in 2 questions in section B, 3 questions in Section C and 2 questions in Section D and one subpart each in 2 questions of Section E.
9. Use of calculator is not allowed.

SECTION-A

This section comprises of MCQs of 1 mark each. Select the correct option(Question 1-Question 18)

1. If A and B are two sets ,then $A \cap (A \cup B)$ equals 1
 a)A b)B c) ϕ d) $A \cap B$
2. If the sets A and B are defined as 1
 $A = \{(x, y): y = \frac{1}{x}, 0 \neq x \in R\}$ and $B = \{(x, y): y = -x, x \in R\}$ then
 a) $A \cap B = A$ b) $A \cap B = B$ c) $A \cap B = \phi$ d) $A \cup B = A$
3. Two finite sets have m and n elements. The number of finite subset of the first set is 1
 112 more than that of 2nd set. The values of m and n are respectively
 a)4,7 b)7,4 c)8,3 d)3,8
4. If a relation R is defined on the set Z of integers by the rule $(a, b) \in R \Leftrightarrow a^2 + b^2 = 25$, then 1
 the domain (R) is
 a){3,4,5} b){0,3,4,5} c){0,3,-3,4,-4,5,-5} d){0,1}
5. Let $n(A)=m$ and $n(B)=n$, then the total number of non empty relations that can be defined 1
 from A to B is
 a) m^n b) $n^m - 1$ c) $mn - 1$ d) $2^{mn} - 1$
6. The range of the function $f(x) = \frac{x-3}{|x-3|}$ is 1
 a)R b)[-1,1] c){-1,1} d){-1,0,1}
7. The complex number z which satisfies the condition $\left| \frac{i+z}{i-z} \right| = 1$ lies on 1
 a)circle $x^2 + y^2 = 1$ b)the x axis c)the y axis d)the line $x+y=1$
8. If m,n,p,q are consecutive integers ,then the value of $i^m + i^n + i^p + i^q$ is 1
 a)1 b)-1 c)0 d)4
9. Find the conjugate of $-1+2i$. 1
 a) $1+2i$ b) $-1-2i$ c) $2+i$ d) $-1+2i$

10. The value of $\cot\left(\frac{\pi}{4} + x\right)\cot\left(\frac{\pi}{4} - x\right)$ is 1
a)-1 b)0 c)1 d)not defined
11. If $\tan\alpha = \frac{m}{m+1}$ and $\tan\beta = \frac{1}{2m+1}$ then $\alpha + \beta$ is 1
a) $\frac{\pi}{2}$ b) $\frac{\pi}{3}$ c) $\frac{\pi}{6}$ d) $\frac{\pi}{4}$
12. The minimum value of $3\cos x + 4\sin x + 8$ is 1
a)5 b)9 c)7 d)3
13. If $\frac{-2}{x-3} > 0$ then 1
a) $x \in (3, \infty)$ b) $x \in (-\infty, 3)$ c) $x \in [3, \infty)$ d) $x \in (-\infty, 3]$
14. $\lim_{x \rightarrow 1} \frac{x^m - 1}{x^n - 1}$ is equal to 1
a)1 b) $\frac{m}{n}$ c) $-\frac{m}{n}$ d) $\frac{m^2}{n^2}$
15. $\lim_{x \rightarrow \frac{\pi}{4}} \frac{\sec^2 x - 2}{\tan x - 1}$ is equal to 1
a)3 b)1 c)2 d) $\sqrt{2}$
16. The number of six digit numbers, all digit of which are odd is 1
a) 6^5 b) $p(6,5)$ c) 5^6 d) $c(6,5)$
17. If $p(n,r)=840$ and $c(n,r)=35$ then r is 1
a)7 b)4 c)11 d)14
18. Everybody in a room shakes hand with everybody else. The total number of handshake is 1
66. The total number of persons in the room is
a)11 b)12 c)13 d)14
- Assertion – Reason Based Questions :**
19. **Assertion(A):** $\lim_{x \rightarrow 0} \frac{\sin x^0}{x} = \frac{\pi}{180}$ 1
Reason(R): $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$
a) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.
b) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.
c) Assertion is true but the Reason is false.
d) Assertion is false but the Reason is true.
20. **Assertion(A):** If $|x - 2| < 5$ then $x \in (-3, 7)$ 1
Reason(R): $|x - a| < r \Leftrightarrow a - r < x < a + r$
a) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.
b) Both Assertion and Reason are correct and Reason is not the correct explanation for Assertion.
c) Assertion is true but the Reason is false.
d) Assertion is false but the Reason is true.

SECTION-B**This section comprises of 5 very short answer type questions of 2 marks each.**

21. Let $T = \left\{x: \frac{x+5}{x-7} - 5 = \frac{4x-40}{13-x}\right\}$. Is T an empty set? Justify your answer. 2
22. Find domain of the following. 2
- (A) $f(x) = \frac{1}{\sqrt{x-|x|}}$

OR

- (B) $f(x) = \sqrt{4-x} + \frac{1}{\sqrt{x^2-1}}$
23. How many numbers between 400 to 1000 can be formed with the digits 0,2,3,4,5,6 if no digit is repeated in the same number? 2
24. Express each of the following in standard form $a+ib$. 2
- (A) $\frac{(3-2i)(2+3i)}{(1+2i)(2-i)}$

OR

- (B) $(1-2i)^{-3}$
25. Evaluate : $\lim_{x \rightarrow a} \frac{\cos x - \cos a}{\cot x - \cot a}$ 2

SECTION-C**This section comprises of 6 short answer type questions of 3 marks each.**

26. If for any non zero x , $af(x) + bf\left(\frac{1}{x}\right) = \frac{1}{x} - 5$, where $a \neq b$, then find $f(x)$. 3
27. If $x = -5 + 2\sqrt{-4}$, find the value of $x^4 + 9x^3 + 35x^2 - x + 4$ 3
28. (A) Prove that : $4\sin x \sin\left(\frac{\pi}{3} + x\right) \sin\left(\frac{2\pi}{3} + x\right) = \sin 3x$ 3
- OR**
- (B) If $\sin x = n \sin(x + 2\alpha)$ prove that $\tan(x + \alpha) = \frac{1+n}{1-n} \tan \alpha$

29. Out of 18 points in a plane, no three are in the same straight line except 5 points which are collinear. How many
(i) Straight lines 3
(ii) triangles can be formed by using them.
30. Evaluate : 3
- (A) $\lim_{x \rightarrow a} \frac{\sin x - \sin a}{x - a}$

OR

- (B) $\log_{x \rightarrow \frac{\pi}{2}} \frac{1 + \cos 2x}{(\pi - 2x)^2}$
31. (A) Solve the following inequation : $\frac{1}{|x|-3} \leq \frac{1}{2}$ 3
- OR**
- (B) Prove that $\frac{\tan 3x}{\tan x}$ never lies between $\frac{1}{3}$ to 1.

SECTION-D**This section comprises of 4 long answer type questions of 5 marks each.**

32. In a survey of 100 students, the number of students studying various languages were found to be : English only 18, English but not Hindi 23, English and German 8, English 26, German 48, German and Hindi 8, no language 24. Find the number of students who were studying
(i) Hindi 1
(ii) English and Hindi 2
(iii) English, Hindi and German. 2
33. (A) If $a \sin x = b \sin\left(x + \frac{2\pi}{3}\right) = c \sin\left(x + \frac{4\pi}{3}\right)$, Prove that $ab + bc + ca = 0$ 5

OR

(B) Prove that : $\cos \frac{2\pi}{15} \cos \frac{4\pi}{15} \cos \frac{8\pi}{15} \cos \frac{14\pi}{15} = \frac{1}{16}$

34. If $0 \leq x \leq 2\pi$, find the value of $\sin \frac{x}{2}, \cos \frac{x}{2}, \tan \frac{x}{2}$ when $\sin x = -\frac{1}{2}$, x lies in quadrant IV. 5
35. Differentiate the following function with respect to x from first principles. 5
- (A) $\sin(x^2 + 1)$

OR

(B) $\frac{1}{ax+b}$

SECTION- E

This section comprises of 3 case study / Passage-based questions of 4 marks each with subparts. The first two case study have three subparts (i),(ii),(iii) of marks 1,1,2 respectively. The third case study question has two subparts of 2 marks each.

36. Case Study-1

If z_1 and z_2 are affixes of points P and Q respectively in the Argand plane, then $|z_1 - z_2|$ is the distance between P and Q i.e. $PQ = |z_1 - z_2|$. In fact, the modulus of a complex number Z represented by a point P in the Argand plane is its distance from the origin O i.e. $OP = |z|$.

Let z_1 and z_2 be the affixes of two points A and B respectively in the argand plane. Any point $P(z)$ on the perpendicular bisector of the line segment AB is equidistant from A and B.

$$PA = PB \Rightarrow |z - z_1| = |z - z_2|$$

So the equation of the perpendicular bisector is given by $|z - z_1| = |z - z_2|$. Let $C(z_0)$ be the centre of the circle of radius R and let $P(z)$ be any point on the circle. then,

$$CP = R \Rightarrow |z - z_0| = R$$

- Find the distance between the points $(-1+2i)$ and $(3,-i)$ 1
- Find the locus of the point $P(z)$ satisfying $|z - 2i| = |z + 2i|$ 1
- (A) Find the equation of the circle whose centre is at $-1+2i$ and radius 3. 2

OR

(B) Find the radius of the circle $|2z - 3 + 2i| = 10$.

37. Case Study-2

In a certain city all telephone numbers have 8 digits. The city is divided into 6 zones. Each zone is allowed a specific non-zero digit which is used as first digit of all telephone numbers of that zone.

Based on the above information answer the following question.

- How many different telephone numbers are there in the zone, if the digit on first place is not used again? 1
- How many different telephone numbers are there in the zone with all digit distinct? 1
- (A) How many different telephone numbers are there in each zone if repetition of the digit is allowed? 2

OR

(B) How many different telephone numbers are there in the city, if there is no restriction.

38. Case Study-3

A manufacturer has 1125 litres of 45% acid solution. He wants to dilute it by adding water. Based on the above information answer the following question.

- What is the minimum volume of water that should be added so that the resulting mixture will contain less than 30% acid content? 2
- What is the minimum volume of water that should be added so that the resulting mixture will contain more than 25% but less than 30% acid content? 2

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION: (2025-2026)
PHYSICAL EDUCATION
CLASS: XI

Time: 3 Hours

Maximum Marks : 70

NAME: _____ SEC: _____ ROLL NO.: _____

GENERAL INSTRUCTIONS

- 1) The question paper consists of 5 sections and 37 Questions.
- 2) Section A consists of question 1-18 carrying 1 mark each and is multiple choice question. All questions are compulsory.
- 3) Section B consists of question 19-24 carrying 2 marks each and are very short answer types and should not exceed 60-90 words. Attempt any 5.
- 4) Section C consists of question 25-30 carrying 3 marks each and are short answer types and should not exceed 100-150 words. Attempt any 5.
- 5) Section D consists of question 31-33 carrying 4 marks each and are case studies.
- 6) Section E consists of question 34-37 carrying 5 marks each and are long answer types and should not exceed 200-300 words. Attempt any 3.

(SECTION - A)
(All questions are compulsory)

1. Who defined "Physical education is that field of education which deals with the muscle activities and their related responses"? 1
a) J F William b) J.B Nash c) Charles A Butcher d) H.C.Buck
2. Lady Ratan Tata Trophy is associated with- 1
a) Volleyball b) Badminton c) Basketball d) Hockey
3. Fit India movement was launched on 1
a) 15th August 2020 b) 29th August 2019 c) 1st January 2019 d) 5th September 2020
4. Who composed the Olympic Anthem? 1
a) R N Tagore b) Kostis Palamas c) Spiro Samara d) George Bernard Shaw
5. When did women participate in the games (Modern Olympic) for the first time? 1
a) 1882 b) 1904 c) 1900 d) 1888
6. Where was the Olympic game held in 2012? 1
a) Paris b) London c) Beijing d) Rio de
7. Which of the following is **NOT** an element of yoga? 1
a) Niyam b) Sadhana c) Trataka d) Pratyahara
8. As per elements of yoga, The pre-stage of samadhi is known as..... 1
a) Yama b) Pranayama c) Dhyana d) Dharana
9. Yoga is attaining pose. Whose words are these? 1
a) Ram Dev b) Ved Vyas c) Krishna d) Patanjali
10. **Assertion (A):** Yoga is not effective for depression 1
Reason (R): Yoga help in maintaining correct posture.
a) Both A and B are true and R is the correct explanation of A.
b) Both A and B are true but R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true.

11. The aim of adaptive physical education is to help whom? 1
a) Youth b) Athletes c) Adults d) Differently abled students
12. Exclusion from physical activity adds to lifestyle related challenges. The most important of these is 1
a) hyperactivity b) obesity c) diabetes d) postural problems
13. Match list-I with list-II and select the correct answer from the codes given below: 1

	List - I		List - II
(i)	Leprosy	1	Undeveloped Organs
(ii)	Cerebral palsy	2	Locomotor Deformity
(iii)	Phocomelia	3	Locomotor Disabled
(iv)	Muscular Dystrophy	4	Paralysis of the Brain

Codes:

	(i)	(ii)	(iii)	(iv)
(a)	3	4	1	2
(b)	4	2	3	1
(c)	1	3	2	4
(d)	2	1	4	3

14. The first physical education programme for students with visual disabilities was originated in: 1
a) 1938 b) 1850 c) 1838 d) 1956
15.is the capacity of an individual by which he leads a balanced life. 1
a) Lifestyle b) Intelligence c) Wellness d) Physical fitness
16. The ability of covering the maximum distance in minimum time is: 1
a) Endurance b) Speed c) Strength d) Flexibility
17. Which is a component of skill related fitness? 1
a) Muscular Strength b) Power c) Body Composition d) Flexibility
18. In which country was the First Aid word first used? 1
a) U S A b) China c) England d) Germany

(SECTION - B)
(Attempt any 5 questions)

19. Describe any two objectives of physical education. 2
20. Briefly explain Ancient Olympic. 2

- | | | |
|-----|---|---|
| 21. | What is Yama? | 2 |
| 22. | Explain the need for special educator. | 2 |
| 23. | What is the meaning of physical fitness? Enlist its components. | 2 |
| 24. | What is first aid? | 2 |

(SECTION - C)
(Attempt any 5 questions)

- | | | |
|-----|--|---|
| 25. | Explain in detail any three career options of physical education. | 3 |
| 26. | A sport can help you balance your body, will and mind. Explain. | 3 |
| 27. | What is Dhouti and Basti kriya? Describe its benefits. | 3 |
| 28. | Explain the causes of disability. | 3 |
| 29. | What is flexibility? Explain. | 3 |
| 30. | Explain isotonic method of strength development or dynamic strength. | 3 |

(SECTION - D)

31. Priyanshi asked her father about the Olympics; he told her that the olympic is divided into 1×4 two parts Ancient and Modern.



Look at the picture carefully.

- a) The modern olympics was introduced in.....
 (i)1900 (ii)1896. (iii)1892 (iv)1924
- b) It was introduced by
 (i) Thomas Bach (ii) Pierre de Coubertin (iii) Avery Brundage (iv) Baron de Coubertin
- c) is the committee for the modern olympics.
 (i) International olympics committee (ii) International sports federation
 (iii) Olympics organizing committee (iv) National olympics association
- d) Competitions are held after every..... years.
 (i) 2 (ii) 3 (iii) 5 (iv) 4

32. Sunrise public school organized a program in which many people from different career 1×4 backgrounds related to physical education were present there.

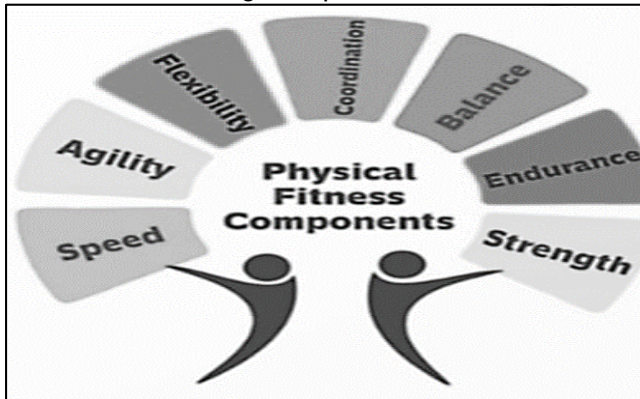


Identify the career.

- a) is shown in the above picture.
 (i) Physical therapist (ii) Occupational therapist
 (iii) Speech therapist (iv) Clinical psychologist
- b) They help people to improve their.....to perform daily.
 (i) skills (ii) hobbies (iii) ability (iv) motivation
- c) The person shown in the above picture is also known as.....
 (i) Counsellor (ii) Psychologist (iii) Social worker (iv) Nurse
- d) They treat people who have mental, physical, emotional and..... disabilities.
 (i) social (ii) cognitive (iii) sensory (iv) developmental

33 In relation to the given picture, answer the following questions.

1×4



- a) The ability to maximum turn & twist on the joints of the body is.....
 (i) flexibility (ii) agility (iii) coordination (iv) balance
- b) The ability to perform maximum efforts in a short period of time is known as.....
 (i) endurance (ii) strength (iii) power (iv) speed.
- c) What refers to the ability of the muscles to continue to perform repetitive exercises without fatigue?
 (i) Muscular strength (ii) Muscular endurance (iii) Flexibility (iv) Agility
- d) Which component of fitness can be defined as the ability of muscles to overcome maximum resistance?
 (i) Muscular endurance (ii) Flexibility (iii) Muscular strength (iv) Cardio fitness

(SECTION - E)
(Attempt any 3 questions)

- | | | |
|-----|---|---|
| 34. | How the trends in sports are changing? Explain. | 5 |
| 35. | What are the general guidelines for yoga practice? | 5 |
| 36. | Mention the types of disability and explain them in detail. | 5 |
| 37. | Explain any five leadership qualities. | 5 |

BURNPUR RIVERSIDE SCHOOL, CHITTARANJAN
HALF-YEARLY EXAMINATION : (2025-2026)

ECONOMICS

CLASS:XI

Time: 3 Hours

Maximum Marks: 80

NAME: _____ SEC. : _____ ROLL NO. : _____

General Instructions:

- This question paper contains two sections:
 Section A: Micro Economics
 Section B: Statistics for Economics
- Marks for questions are indicated against each question.
- Question No. 1-10 and 18-27 are 1 mark questions which are to be answered in one word/ sentence.
- Question No.11-12 and 28-29 are 3 marks questions which are to be answered in 60-80 words each.
- Question no. 13-15 and 30-32 are 4 marks questions which are to be answered in 80-100 words each.
- Question No. 16-17 and 33-34 are 6 marks questions which are to be answered in 100-150 words each.
 Question No. 17 & 34 are case-based questions.

PART A – MICRO ECONOMICS

- When an economy is operating on the PPC, it indicates 1
 A. potential output = actual output B. potential output > actual output
 C. potential output < actual output D. cannot be determined.
 (Choose the correct alternative)
- Who controls economic activities under Centrally planned economy? 1
 A. Government B. Industrialists C. Consumers D. Private firms.
 (Choose the correct alternative)
- Read the following statements carefully: 1
Statement 1: Economic problem is the problem of economizing the resources.
Statement 2: Scarcity is a situation in which there is enough of resources to meet all human wants.
 In the light of the given statements, choose the correct option from the following:
 A. Both the statements are true.
 B. Both the statements are false.
 C. Statement 1 is true and statement 2 is false.
 D. Statement 2 is true and statement 1 is false.
- From the set of statements given in **Column I** and **Column II**, choose the correct 1
 alternatives from the following:

Column I a) TU b) MU c) Consumer equilibrium d) Negative MU	Column II i) slopes downwards from left to right ii) When consumption of additional unit leads to dissatisfaction iii) $\sum MU$ iv) $MU_x/Price_x = MU_y/Price_y$
--	---

 A. a-i, b-ii, c-iii, d=iv B. a-ii, b-iii, c-iv, d-i
 C. a-iii, b-i, c-iv, d-ii D. a-iv, b-ii, c-i, d-iii.

5. Read the following statements: Assertion (A) and Reason (R). Choose the correct option from those given below: 1
Assertion (A): Indifference curve slopes downward from left to right.
Reason (R) : To maintain constant satisfaction under monotonic preferences more of one good must be backed by less of the other.
 A. Both A and R are true and R is the correct explanation of A.
 B. Both A and R are true but R is not the correct explanation of A.
 C. A is true but R is false.
 D. A is false but R is true.
6. Read the following statements carefully: 1
Statement 1: Utility of every commodity can be measured in terms of ordinal numbers.
Statement 2: Marginal utility of money is a measuring rod for a rupee worth of satisfaction.
 In the light of the given statements, choose the correct option from the following:
 A. Both the statements are true.
 B. Both the statements are false.
 C. Statement 1 is true and statement 2 is false.
 D. Statement 2 is true and statement 1 is false.
7. Read the following statements: Assertion (A) and Reason (R). Choose the correct option from those given below: 1
Assertion (A) : With the fall in the price of the commodity, real income of the consumer increases
Reason (R) : Less of good can be purchased at the same absolute income.
 Choose the correct alternative from the following:
 A. Both A and R are true and R is the correct explanation of A.
 B. Both A and R are true but R is not the correct explanation of A.
 C. A is true but R is false.
 D. A is false but R is true.
8. As a result of the rise in consumer's income, the demand curve for coarse grain 1
 A. shifts to the right B. shifts to the left
 C. becomes horizontal D. becomes vertical.
 (Choose the correct alternative)
9. What is the shape of demand curve whose elasticity is equal to unity? 1
 A. Horizontal straight line B. Rectangular hyperbola
 C. Vertical straight line D. Upward rising
 (Choose the correct alternative)
10. Availability of close substitutes makes the demand..... 1
 A. unitly elastic B. more elastic C. less elastic D. infinitely elastic.
 (Choose the correct alternative)
11. Explain the problem of 'What to produce?' with the help of Production Possibility Curve. 3
12. Higher consumption of a commodity means lower and lower marginal utility but it never 3
 (A). implies negative total utility. Do you agree? Give reasons for your answer.
- OR**
12. How does a consumer reach equilibrium position when he is buying only one commodity? 3
 (B). Explain with the help of a diagram.
13. What is the shape of Production Possibility Curve? Why is it so? 4
 (A). **OR**
13. Job opportunities have increased and thus unemployment rate has decreased in the 4
 (B). economy. How would it impact the actual and potential level of output in the economy?
14. Analyse any four properties of Indifference curve. 4
15. A consumer spends Rs.60 on a good priced at Rs.5 per unit. When price falls by 20%, the 4
 consumer continues to spend Rs.60 on the good. Calculate price elasticity of demand by percentage method.

16 Establish consumer's equilibrium by Indifference Curve analysis with the help of a diagram. 6

(A) **OR**

16 What is a budget line? What is budget set? Explain with the help of diagrams the change in budget line due to the change in prices of two commodities and income of the consumer.

17. One should distinguish between value-in-use and market value of a commodity. Water has high value-in-use but its market value is low compared to diamond. This depends on the availability of the commodity. In terms of market supply, water is scarce but not as scarce as diamonds. Thus market price of water is much lower than of the diamonds.

Suppose you are in a desert and are dying to quench your thirst. At that time you might even ready to forego a diamond in your possession just for a glass of water.

On the basis of the given text and common understanding answer the following questions:

- I) Explain the paradoxical situation cited in the above passage for two commodities. 2
- II) Analyse any two exceptions to the law of demand. 2
- III) Compare and contrast the degree of elasticity between necessary goods and luxurious goods. 2

PART B – STATISTICS FOR ECONOMICS

18. Which of the following is not a characteristic of Statistics? 1

- A. Aggregate of data
- B. Affected by multiplicity of causes
- C. Collected in a systematic manner
- D. Only expressed in words.

(Choose the most appropriate option)

19. Which of the following is a method of secondary data collection? 1`

- A. Indirect oral investigation
- B. Mailing surveys
- C. Direct personal investigation
- D. Semi-Government publication.

(Choose the correct alternative)

20. Read the following statements: Assertion (A) and Reason (R). Choose the most appropriate option given below: 1

Assertion (A): Size of the class refers to the width of the class.

Reason (R) : Frequency of the class interval is known as its cumulative frequency.

- A. Both A & R are true and R is the correct explanation of A.
- B. Both A & R are true but R is not the correct explanation of A.
- C. A is true but R is false.
- D. A is false but R is true.

21. Read the following statements carefully and choose the correct alternative from the following: 1

Statement 1: Enumerator's method is a method used to collect primary data.

Statement 2: Publication of trade association is an example of published source of Secondary data.

- A. Both the statements are true.
- B. Both the statements are false.
- C. Statement 1 is true but Statement 2 is false.
- D. Statement 2 is true but Statement 1 is false.

22. Match the following and choose the correct alternative: 1

Column I

Column II

- | | |
|----------------------|---|
| a) Bar diagram | i) Cumulative total tends to decrease. |
| b) Frequency polygon | ii) One dimensional diagram |
| c) More than ogive | iii) Cumulative total tends to increase |
| d) Less than ogive | iv) Can be drawn without histogram |

Alternatives :

- | | |
|------------------------------|------------------------------|
| A. a-i , b-ii , c-iii , d-iv | B. a-ii , b-iii , c-iv , d-i |
| C. a-ii, b-iv, c-i , d-iii | D. a-iii, b-iv, c-ii, d-i. |

23. In series, the lower limit of the first class interval and the upper limit of the last class interval are not given. 1

- A. inclusive B. exclusive C. open-end D. mid-value.

(Choose the correct alternative)

24. The Arithmetic mean of the following items is 36: 1

70, 10, 74, X, 8, 42. Find the value of X.

- A. 12 B. 22 C. 32 D. 2

(Choose the correct alternative)

25. Read the following statements: Assertion (A) and Reason (R). Choose the most appropriate option given below: 1

Assertion (A): The median value is not capable of further algebraic treatment.

Reason (R) : Median is free from the effect of extreme value of the series.

- A. Both A & R are true and R is the correct explanation of A.
 B. Both A & R are true but R is not the correct explanation of A.
 C. A is true but R is false.
 D. A is false but R is true.

26. Sum of the deviations of different values from arithmetic mean is always equal to 1

- A. one B. less than one C. more than one D. zero.

(Choose the correct alternative)

27. Read the following statements carefully and choose the correct alternative from the following: 1

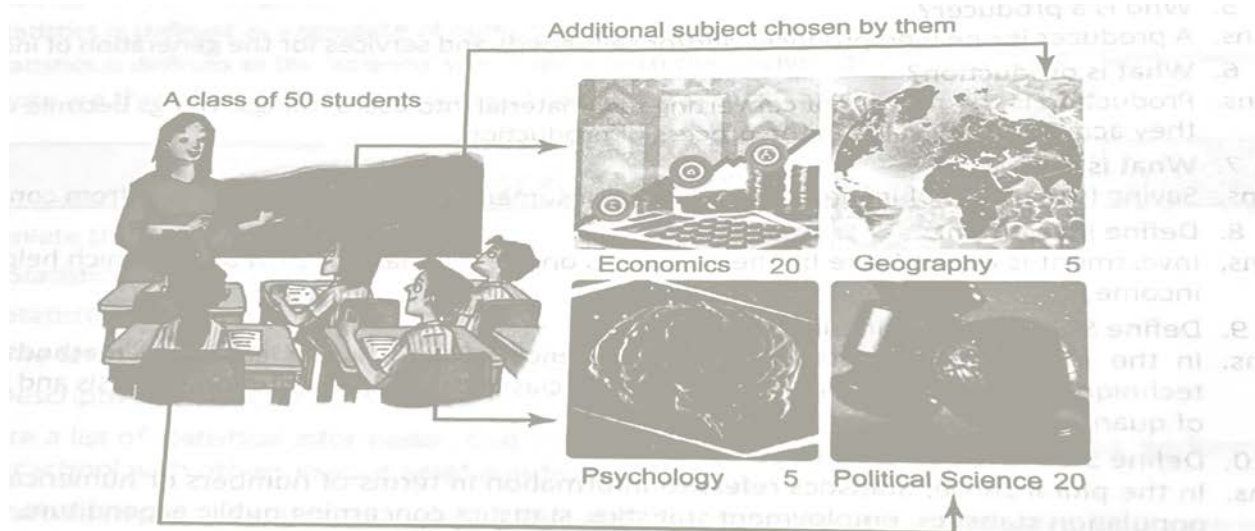
Statement 1: Arithmetic mean is unsuitable and hence cannot be used for comparisons.

Statement 2: An average value should not be based on all the observations of the series.

- A. Both the statements are true.
 B. Both the statements are false.
 C. Statement 1 is true but Statement 2 is false.
 D. Statement 2 is true but Statement 1 is false.

28.

3



Analyse the above image in the context of the statement, "All Statistics are data but all data are not Statistics."

29 Analyse any three merits of arithmetic mean

3

(A)

OR

29 Analyse any three demerits of arithmetic mean.

(B)

30 Present the following data on the expenditure of a family in the form of a circular diagram:

4

(A)

Items of expenditure	Food	Clothing	Housing	Fuel	Others
Income spent	150	100	125	75	50

OR

30 Prepare a Subdivided Bar Diagram from the following data:

(B)

Subject	English	Mathematics	Economics
Student A	46	26	18
Student B	38	42	20
Student C	32	43	25
Student D	40	30	30

31. Convert the following frequency distribution into More Than type and Less Than type of frequency distribution:

4

Marks	Number of students
0-5	4
5-10	8
10-15	15
15-20	12
20-25	10
25-30	6
30-35	0

32. Calculate missing frequency from the following data when median is 24.

4

Marks	0-10	10-20	20-30	30-40	40-50
Frequency	5	25	?	18	7

- 33 Calculate arithmetic mean from the following data by step deviation method:

6

(A)

Wages	20-25	25-30	30-35	35-40	40-45	45-50	50-55
No. of workers	10	12	8	20	11	4	5

OR

- 33 The mean monthly salary paid to 77 employees in a company was Rs.78. The mean salary of 32 of them was Rs.45 and of the 25 was Rs.82. What was the mean salary of the remaining?

34. Selection of average must confirm to the objective of study. If all the values are to be given equal importance, arithmetic mean will be most appropriate. If the value occurring most frequently in a series is to be identified then mode will be most relevant.

In case the number of variables in a series is very small, then arithmetic mean is the best measure of the central tendency of the series.

If the value of large number of items in a series is small, but one or two items is large then arithmetic mean may not be useful. If most of the values are located at the middle of the series or are related to qualitative facts then the use of median should be the best option.

If no importance is to be attached to the highest and lowest items of a series, then the use of median or mode should be most suitable.

On the basis of the given text and common understanding answer the following questions:

- (I) Which factors should be kept in mind while deciding the suitability of average? 2
- (II) What are the different methods of Central Tendency for calculating average? 2
- (III) Which is the best method to calculate average? Give reasons in support of your answer. 2