

2025
ENGLISH

Full marks : 80

Time : 3 hours

General instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 16 questions divided into 4 sections A,B,C &D.*
- iii) *Attempt questions based on specific instructions for each part. Write the correct number in your answer sheet to indicate the option/s being attempted.*
- iv) *General and Internal choice has been provided in some questions.*

N.B: *Check that all pages of the question paper are complete as indicated on the top left side.*

SECTION-A (Literature)

1. Choose the correct option for the following questions: 4x1=4

- (a) “At last, my time was ended at this trade by which no man can support himself”.

What trade is the soldier referring to here?

- | | |
|------------------|---------------------|
| (i) Shop boy | (ii) Floor polisher |
| (iii) Apprentice | (iv) Mason |

- (b) Who is known as the ‘Mother of Revolution’ by her people?

- | | |
|---------------------------|----------------------------|
| (i) Ellen Johnson Sirleaf | (ii) Tawakkul Karman |
| (iii) Wangari Maathai | (iv) Leymah Roberta Gbowee |

- (c) Select the options that list the qualities of Susan:

- | | |
|---------------------|----------------|
| (i) Smart | (ii) Dainty |
| (iii) Strong willed | (iv) Dominant |
| (v) Courageous | (vi) Spriteful |

A. (i) ,(v) ,(iii) and (ii)

B. (vi), (iv), (ii) and (v)

C. (i), (v), (vi) and (iv)

D. (iii), (i), (v) and (vi)

- (d) Ellen is assessed as having high Emotional Intelligence. This means she has

- (i) Skills and abilities that help her understand people from another cultural heritage.
- (ii) Skills and abilities that help her process, understand and regulate her emotions and those of others.
- (iii) Skills and abilities to acquire different languages.
- (iv) Skills and abilities to achieve top position always.

2. Answer the following questions in 30-40 words:

3x2=6

- (a) What did Hardimont promise to do for Jean-Victor after learning about his past life?
- (b) How did grandma's frog story inspire Susan?
- (c) What was the excuse Bill and Sam made up to convince the boy to go home?

3. Answer the following questions in about 150 words:

- a. 'A Voice for Freedom' explores the struggles faced by those who are silenced and oppressed. It advocates the desire for freedom and the importance of speaking out against oppression. Do you agree with the given statement? Elucidate.

Or

5

- b. Define Emotional Intelligence. Explain the four factors of Emotional Intelligence.

4. Choose the correct answer from the alternatives given:

3x1=3

- a. In the sonnet, 'Let Me Not To The Marriage of True Minds' Shakespeare's notion of ideal love is juxtaposed with the problem of
 - (i) Instability
 - (ii) Unsteadiness
 - (iii) Unfaithfulness
 - (iv) Flux and change

- b. *Let not the man who is beast or who thinks he is God come near me.*
Identify the poetic device used in these lines.

- (i) Simile
- (ii) Personification
- (iii) Metaphor
- (iv) Alliteration

- c. *Ah! As the heart grows older
It will come to such sights colder
By and by, nor spare a sigh...*

Read the statements and then select the option that best describes the given statements.

Statement i: As we grow older, we are less likely to be sad.

Statement ii: As we grow older, we do not have time to sigh.

Statement iii: We are accustomed to the sight of the falling leaves with the passage of time.

- A. Statement i is false, statement ii is true, statement iii cannot be inferred.
- B. Statement i and iii are true, statement ii cannot be inferred.
- C. Statement i cannot be inferred, statement ii is false, statement iii is true.
- D. Statement i and ii are false, statement iii is true.

5. Read the lines from the poem and answer the following questions:

- a.are you grieving
Over Goldengrove unleaving?
Leaves, like the things of man, you
With your fresh thoughts care for, can you?

- (i) Who is 'You' referred to here? 1
- (ii) Why is the person grieving? 1
- (iii) What does 'fresh thoughts' represent here? 1

Or

b. Forward, The Light Brigade!

Was there a man dismay'd?

Not tho' the soldier knew

Someone had blunder'd:

Theirs not to make reply,

Theirs not to reason why,

Theirs but to do and die:

(i) What was the blunder? (1)

(ii) What are they not to do? (1)

(iii) What was the price paid for the blunder? (1)

6. Answer the following question in about 120 words:

- a.** Describe how the central idea of the poem 'Let Me Not To The Marriage Of True Minds' is presented through different images.

Or

4

- b.** Louis MacNeice's poem 'Prayer Before Birth' paints a picture of a world devoid of love, compassion and remorse. Substantiate your answer with reasons.

7. a. But here's a parchment with the seal of Caesar:

I found in his chest, 'tis his will.

Let but the commons hear this testament,

Which, pardon me, I do not mean to read-

And they would go and kiss dead Caesar's wounds,

And dip their napkins in his sacred blood,

Yea, beg a hair of him for memory

And, dying, mention it within their wills,

Bequeathing it as a rich legacy

Unto their issue.

(a) What parchment does Antony reveal to the Roman citizens? 1

(b) What influence does he claim it will have on the citizens if he reads it out? 2

(c) How did the citizens react to this? 2

Or

- b.** Trace the progression of the citizen's reactions to Mark Antony's speech. (5)

8. **Answer any two of the following questions in about 150 words: 2x5=10**

- (a) Give the character sketch of Virginia Otis, highlighting the key aspects of her personality.
- (b) Comment on the supernatural elements in the Canterville Ghost.
- (c) Describe the meeting of the Canterville Ghost with his new found ghost friend .

SECTION –B (Reading)

9. 1. As per the famous Daniel Bell, ‘Technology like art, is the soaring exercise of human imagination’. It is also most difficult to imagine the world today without the internet and cellphones, but this has not always been the case. It has taken 30 years and four industrial revolutions to reach the world we live in today. Modern technology has become so advanced that it is on the brink of replacing human activities and human emotions. One such advanced form of technology includes AI or machine learning.
2. Artificial Intelligence is a part of technology that can process information and make decisions without human supervision .Researchers have been working hard on the technology for a very long time, but AI has now become an integral part of our everyday lives. Many useful characteristics such as navigation apps, video suggestions, facial recognition, and smart assistants are a by-product of artificial intelligence.
3. According to researchers, there are four broad classifications of AI. The first includes ‘Reactive Machine’ where these machines do not have any memory storage capacity but can process information and make situation- based decisions. These machine learning devices use algorithms and are frequently used in gaming software such as chess and ludo. It is very easy for such programs to think of a million permutations and combinations and reach the most suitable results that even the champions of the field have to take a bow in front of these programmes.
4. The second type of AI is called ‘Limited Memory’ technology and has taken the entire world by storm. Not only can such devices take situation-based decisions, but they also store previously analyzed data for future use. A good example of ‘limited memory’ technology is the video recommendation system on any video streaming platform like Youtube. Once the AI figures out the likes and dislikes of the user, it can make decisions on the user’s behalf and recommend shows and videos as per the user’s interest. The ‘limited memory’ technology has become an easy way to influence and manipulate the data in masses as they use the thought process of the person himself. Although this is a revolutionary feat, it has also made people more vulnerable and prone to wasteful online shopping and other unusual activities.
5. The third type of AI, which has not seen much progress yet, includes ‘Theory of Mind’. The idea is to develop a technology that can store and process data and have a human -like thought process that will allow the machine to make important decisions during a crisis. Scientists are working

continuously on this project and have come up with some humanoid robots, but the results have not been good enough to replace human work and services. However, we can hope in the future to have a lot of robot doing our work.

6. The fourth type of AI is the ‘self-awareness’ program which seems almost unachievable at this time. It refers to the knowledge of identifying oneself from given surroundings. A machine that would be self-aware would have its own emotions and its own thought process. If someday in the future, science is able to evolve to create ‘self-aware machines’, the human race could achieve immortality. And although this idea sounds difficult to believe, it has its supporters in many advanced scientists such as Stephen Hawking and Albert Einstein. These scientists believed that it was possible to store and replicate human consciousness.

7. AI has indeed made the world smaller and life more achievable. The distance that would take months to travel, years ago, now can be traversed in a matter of a few hours. There is no place on earth that humans cannot reach. AI has helped increase the duration of the entire human population by making health facilities cheaper and more accessible. But like every coin has two faces, AI technology has its pros and cons. We have become so addicted to our devices like mobile games, alexa and many more that we’ve replaced them for physical human interaction. Not only is AI taking away our social life, but it is also increasing health issues. Weaken eyesight, obesity, and cardiovascular issues are just common diseases resulting from the continuous use of technology sitting in one place. Thus, we must be reasonable with using any sort of technology.

Based on your reading of the passage, answer the following questions given below:

a. What is the primary characteristic of Artificial Intelligence (AI) that sets it apart from other technologies? 1

- (i) Ability to learn and adapt
- (ii) Reliance on human supervision
- (iii) Lack of problem- solving capabilities
- (iv) Incapability of processing information

b. Which of the following is NOT a common application of AI in our daily lives? 1

- (i) Navigation apps
- (ii) Video suggestions
- (iii) Manual labour
- (iv) Smart assistants

c. How do Reactive Machines make decisions? 1

- (i) Based on past experience
- (ii) By analyzing future possibilities
- (iii) Intuitively
- (iv) Based on the current situation

d. What is Artificial Intelligence? 1

e. What did scientists like Stephen Hawking and Albert Einstein believe? 1

- f. Find a word in the passage which means the same as ‘duplicate’ . 1
g. What are the pros and cons of AI technology? 2

10. **Read the following passage and prepare notes on the contents of the passage and summarize in about 80 words using the notes that you have made:** 4+3=7

Cholesterol is a waxy substance that is present in our body. It's an important component of our cell walls and other tissues, but it is thought to be harmful if in excess. It can lead to blockages caused by the plaque formation in the heart's arteries causing heart disease and heart attacks. Such blockages can also happen in arteries, in the legs or in the brain. Cholesterol is produced in the liver, and the amount produced is influenced by our genes. The food we consume, too, has effect on cholesterol levels. Fatty foods high in simple sugars such as cold drinks increase cholesterol levels. Lack of physical activity and exercise also leads to elevated levels.

We can reduce cholesterol levels by following a heart- healthy lifestyle, which include regular physical activity for at least 30 minutes daily and a diet high in fruits and vegetables and low in saturated sugar. Red yeast rice has been shown to be effective in lowering cholesterol. Include garlic and flaxseeds in your daily diet. Olive oil, canola oil or other oil rich in monounsaturated fatty acids can be used for cooking in order to reduce cholesterol through food.

The ill-effects of high cholesterol take time to show, and you may not realize until it's too late. Cholesterol, by itself is important because it insulates nerve cells and membranes. Being a fatty substance, it does not dissolve in the blood and is packaged into protein. There are ‘good’ HDL cholesterol and ‘bad’ LDL cholesterol. Bad cholesterol can stick to the smooth lining of the blood vessels, where it is absorbed, while HDL mops up excess bad cholesterol and removes it from blood vessels.

Exercise five days a week, whether you are overweight or underweight. Aerobic exercises like walking, cycling, swimming, slow jogging, dancing etc for 45 minutes, and aerobic exercises like weight training and sprinting, will help increase good and reduce bad cholesterol. In order to maximize your cardiovascular fitness, aerobic exercises should raise your heart rate to a certain level. This level is called your target zone. Always warm up, stretch and cool down- relax –before and after any workout to avoid injuries. All these contribute to a healthier and fitter life.

SECTION-C (Writing)

11. You are Daisy/ Max of 108, Green Cottage, Duncan Road Dimapur. You have lost your pet dog. Write a classified advertisement for the lost column of a local daily.

Or 4

Read the following paragraph and express your opinion in not more than 50 words on whether you agree or disagree with the ideas mentioned in it.

Computer games have been extremely popular for decades now and almost every household has at least one computer. However, it can be seen that playing these games causes social, educational and personal problems of several kinds both to youngsters and society. Firstly, young children who spend a great

deal of time in front of a monitor are not playing sport. As a result, they are mostly likely to be overweight and less healthy. In addition, addiction to games add to many problems such as the lack of interaction and social skills with their family and friends. If we wish children to grow up to become well-adjusted members of society, these games should be more tightly controlled.

12. You are Jack/ Marina, an academic counselor. You have been invited to Crestwood Higher Secondary School, Kiphire to give a speech to motivate the students on 'Balancing academic and extra-curricular activities in today's busy world'. Write the speech in about 150-200 words.

Or

5

Write an article in about 150-200 words on the topic 'Impact of Advertisement on the Younger Generation.'

13. You had made a prepaid purchase of a Rolex Oyster Perpetual watch from Flipkart. It's been ten days after the expected date of arrival of the product but you still have not received it. On enquiring, Flipkart denies any responsibility as their record shows that it has been dispatched on time. Write a letter to the Manager, Blue Dart Express, Kohima inquiring about the parcel lost in transit. **6**

SECTION – D (Grammar)

14. **Rewrite the following as directed:** **3x1=3**
- I _____ on my assignments for a while. (*Future Continuous Tense*)
 - They flew for five hours travelling to the U.S. (*Present Perfect Tense*)
 - My friend ordered a pizza for her younger sister. (*Past Perfect Tense*)

15. **Write the meaning of the following idioms and phrases and make sentences of your own:** **3x1=3**
- Let the cat out of the bag
 - Cut and dried
 - Waste your breath

16. **Insert the blanks with correct modals:** **4x1=4**
- It _____ be extremely difficult for a child to do this puzzle task.
 - Lima _____ speak in four languages fluently.
 - Peter _____ have helped his mother in preparing the dishes.
 - Did Tom _____ pay the fine?

2025
EDUCATION

Full marks : 80

Time : 3 hours

General instructions:

- i. Approximately 15 minutes is allotted to read the question paper and revise the answers.
- ii. The question paper consists of 28 questions.
- iii. Marks are indicated against each question.
- iv. Answers to questions carrying 1 mark should not exceed one sentence.
- v. Answers to questions carrying 2 marks should not exceed 50 words.
- vi. Answers to questions carrying 4 marks should not exceed 100 words.
- vii. Answers to questions carrying 6 marks should not exceed 200 words.
- viii. Answers to questions carrying 8 marks should not exceed 300 words.

N.B: Check that all pages of the question paper are complete as indicated on the top left side.

(The figures in the margin indicate full marks to the questions)

Choose the correct answer from the given alternatives in questions 1 to 10.

1. Which stage represents a period of intensive growth and change in nearly all aspects of a child's physical, mental, social and emotional life? 1
 (a) Conception (b) Infancy
 (c) Childhood (d) Adolescence
2. Which law states that "in successive generations variations tend to move towards the average of the species of which they form a part."? 1
 (a) Like begets like (b) Law of Variation
 (c) Law of Regression (d) Law of Motion.
3. The awareness about oneself is called _____. 1
 (a) Reality Contact (b) Self-Concept
 (c) Impulse Control (d) Positive thoughts
4. Who stated "Interest is latent attention and attention is interest in action"? 1
 (a) Ross (b) William James
 (c) Woodworth (d) Mc Dougall
5. The anarchic or multifactor theory was put forward by _____. 1
 (a) Johnson (b) Gardner
 (c) Charles Spearman (d) E.L Thorndike
6. Braile should be used for the _____ children 1
 (a) The defective in speech (b) The deaf and hard of hearing
 (c) Crippled (d) The blind and near blind
7. Naro was a pre-school teacher, she used to give sweets to the students whenever they answer the questions correctly. The kind of reinforcement used by Naro is _____ 1
 (a) Negative reinforcement (b) Positive reinforcement
 (c) Partial reinforcement (d) Continuous reinforcement

8. Mary was mentally stressed out for the past one year. She is emotionally disturbed and depressed. She experiences visual disturbances, hear voices and negative comments about her that others do not. She is experiencing _____ **1**
 (a) Illusion (b) Sensory processing disorder
 (c) Hallucination (d) Obsessive compulsive disorder
9. Peter has the habit of saying "yes" to everything and takes constructive criticism personally so she has _____ **1**
 (a) Bad habits that show lack of Self-esteem
 (b) Bad conversation and Social skills habits
 (c) Bad habits that are just gross
 (d) Personal bad habits
10. Avi like surprises, get energised by being with others and also like public acknowledgement. What type of personality does she have? **1**
 (a) Introvert (b) Extrovert
 (c) Ambivert (d) Conservative
11. Write one function each: **1+1=2**
 i. Cerebellum
 ii. Medula Oblongata
12. Differentiate between voluntary and involuntary attention. **1+1=2**
13. What is Readiness according to Thorndike? **2**
14. How does habit bring uniformity? **2**
15. Mention the 3R'S of habit formation. **2**
16. Find the I.Q of a child whose mental age is 5 and chronological age is 4. **2**
17. Give two limitations of the questionnaire method. **1+1=2**
18. Lendi do not have any disease or any physical defect but her health is not so sound. Suggest any two provisions to help her overcome this problem. **1+1=2**
19. Mention the mechanism of Heredity. **4**
20. What are the four basic attributes of Anarchic theory? **4**
21. Discuss the nature of personality. **4**
22. What is arithmetic mean? Calculate arithmetic mean from the data showing marks of students in a class in education test: **2+2=4**
 40, 50, 55, 58, 78

23. Read the following passage carefully and answer the questions given below: - **1×4=4**

Mental health is a state of mental wellbeing in which an individual realises his or her own abilities, can cope with the normal stress of life, can work productively and is able to make contributions to his or her community. It is an integral component of health and well being that strengthen an individual and collective abilities to make decisions, built relationships and shape the world we live in. in our day-to day lives, there are various factors that might affect the mental well-being of an individual such as peer pressure, family or personal relationship problems, career stress etc. a person starts to unconsciously feel negative about things around him/her their social presence is reduced and there is a constant feeling of stress and anxiety in the body as well as mind. Looking after one's mental health can help a person maintain their ability to enjoy life. This involves balancing their activities, responsibilities and efforts to achieve psychological resilience.

- a) Why is mental Health important?
- b) What are the aspects that influence the mental health?
- c) Name any two symptoms that deteriorate mental health?
- d) How can we truly live life to the fullest?

24. **a.** Differentiate between Growth and Development.

Or

6

- b.** Suggest any six preventive measures of Maladjustment

25. **a.** Describe any two developmental characteristics of adolescence period.

3+3=6

Or

- b.** What is the relevance of Spearman's two factor theory?

(6)

26. **a.** Define interest. What are the nature and characteristics of interest.

1+5=6

Or

- b.** State the Educational implications of Individual Differences.

(6)

27. **a.** Discuss any eight branches of Psychology.

1×8=8

Or

- b.** Explain the different types of Environment.

(8)

28. **a.** Define forgetting. what are the factors influencing forgetting?

2+6=8

Or

- b.** Describe any two situational tests that are considered more accurate.

(4+4=8)

2025
PSYCHOLOGY

Full marks: 80

Time : 3 hours

General instructions:

- i. Approximately 15 minutes is allotted to read the question paper and revise the answers.
- ii. The question paper consists of 28 questions.
- iii. Marks are indicated against each question.
- iv. Answers to questions carrying 1 mark should not exceed one sentence.
- v. Answers to questions carrying 2 marks should not exceed 50 words.
- vi. Answers to questions carrying 4 marks should not exceed 100 words.
- vii. Answers to questions carrying 6 marks should not exceed 200 words.
- viii. Answers to questions carrying 8 marks should not exceed 300 words.

N.B: Check that all pages of the question paper are complete as indicated on the top left side.

(The figures in the margin indicate full marks to the questions)

Choose the correct answer from the given alternatives in questions 1 to 10.

1. Group test of General Mental Ability was developed by. 1
 (a) Prayag Mehta (b) S. Jalota.
 (c) Uday Shankar (d) Pramila Pathak
2. Asen has the skill of understanding the motives, feelings and behaviour of other people, she is said to have. 1
 (a) Spatial Intelligence (b) Intrapersonal Intelligence
 (c) Interpersonal Intelligence (d) Naturalistic Intelligence
3. According to Charak Samhita, personality can be classified on the basis of three humoural elements called. 1
 (a) Rajas Guna (b) Tamas Guna
 (c) Tridosha (d) Prakriti
4. Kaito believes in being able to effectively complete assigned class assignments and achieve goals. Kaito exhibits 1
 (a) Self-efficacy (b) Self-concept
 (c) Self-esteem (d) Self-control
5. Who proposed the Logotherapy? 1
 (a) Victor Frankl (b) Carl Rogers
 (c) Freiderick (d) Aron Beck
6. An unexpected travel away from home, the assumption of a new identity and the inability to recall the previous identity represents 1
 (a) Dissociative identity disorder (b) Depersonalisation disorder
 (c) Dissociative fugue (d) Dissociative amnesia
7. In children, aggressive behaviour like dominating and bullying others without provocation is seen in: 1
 (a) Verbal aggression (b) Physical aggressions
 (c) Hostile aggression (d) Proactive aggression

8. Unwanted behaviour can be reduced and wanted behaviour can be increased simultaneously through 1
 (a) Aversive conditioning (b) Differential reinforcement
 (c) Negative reinforcement (d) positive reinforcement
9. Sede is usually targeted whenever any theft occurs within the class. The phenomenon behind this is: 1
 (a) Scapegoating (b) Learning
 (c) Stereotype (d) Discrimination
10. Savali behaviour always improves in the presence of others is known as: 1
 (a) Imitation. (b) Social inhibition.
 (c) Social facilitation (d) Interaction
11. List any two characteristics of personalities. 1+1=2
12. Explain Social Identity. 2
13. Give any two features of General Adaption Syndrome (GAS) 1+1=2
14. Aso always fears whenever she enter in some new or unfamiliar situation. Identify the disorder. Briefly explain. 1+1=2
15. What is Token economy? 2
16. Briefly elaborate the concept of dysfunctional cognitive structures. 2
17. What is meant by the term Self-fulfilling prophecy? 2
18. Explain any two features of attitudes. 1+1=2
19. Our intelligence is the result of heredity (nature) and environment (nurture)Discuss. 4
20. Read the following passage carefully and answer the questions given below:
 Stress is a common experience that effects everyone at some point in their lives. While stress is often perceived negatively, it can also serve as a motivator, pushing individuals to overcome obstacles and achieve their goals.
 One of the key strategies for managing stress is developing resilience, resilience is the ability to bounce back from difficult situations and adapt to change. Another important aspect of managing stress is time management effective time management allows individuals to prioritize task, set realistic goals and avoid procrastination. It can help to reduce the feeling of being overwhelmed and increase their productivity. In conclusion while stress is an inevitable part of life it can be managed effectively through resilience and time management. 2+2=4
 (a) What is Resilience?
 (b) How can effective time management help in reducing stress?
21. What are the characteristics of Psychotherapeutic approaches? 4
22. Explain the factors that influence attitude formation. 1×4=4

23. Why is it important to be a member of a group? Write any two points on how you can influence the society positively. **2+2=4**

24. a. "Intelligence is not a single entity rather distinct type of intelligence exist" Explain with reference to Howard Gardner theory of intelligence **6**

Or

b. Freud believed that people avoid anxiety mainly by developing defense mechanisms. Explain any three kinds of defense mechanisms **(3×2=6)**

25. a. Explain any three aspects of stress on psychological functioning. **3×2=6**

Or

b. Which therapy encourages the client to seek personal growth and actualize their potential? Explain any two therapies on these principles. **(3+3=6)**

26. a. What is social Loafing? Explain why it occurs. **2+4=6**

Or

b. Explain any three sources of prejudice. **(3×2=6)**

27. a. Discuss how Alferd Binet assessment of intelligence relate to William Stern's intelligence quotient **8**

Or

b. Discuss any four approaches to behavioral analysis in assessment of personality. **(4×2=8)**

28. a. Stress is a silent killer and is on the increase. Suggest any four techniques that you think will be helpful to manage stress. **4×2=8**

Or

b. While speaking in public, the patient changes topics frequently, is this a positive or negative symptom of Schizophrenia? Describe the other symptoms or sub -types of Schizophrenia. **(4+4=8)**

2025
ENTREPRENEURSHIP

Full marks: 70

Time: 3 hours

General Instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 25 questions. All questions are compulsory.*
- iii) *Answer to questions carrying 2 marks should not exceed 50 words.*
- iv) *Answer to questions carrying 4 marks should not exceed 100 words.*
- v) *Answer to questions carrying 6 marks should not exceed 200 words.*
- vi) *Answer to questions carrying 8 marks should not exceed 300 words.*
- vii) *Internal choice has been provided in 6 marks and 8 marks questions.*

N.B: Check that all pages of the question paper is complete as indicated on the top left side.

Choose the correct answer from the given alternatives in questions 1 to 10.

1. Information gathered from various sources must be _____. **1**
 - a) Analysed
 - b) Verified
 - c) Utilised properly
 - d) All of the above.
2. Weights and Measures Act is a _____. **1**
 - a) Economic factor
 - b) Political factor
 - c) Legal factor
 - d) Social factor.
3. Market driven idea is also known as _____. **1**
 - a) Demand driven idea
 - b) Service driven
 - c) Price driven
 - d) None of the above.
4. Enterprise employing more than _____ persons have to apply for EPF number. **1**
 - a) 20
 - b) 25
 - c) 15
 - d) 30.
5. The most important element of business plan are _____. **1**
 - a) Marketing plan
 - b) Financial plan
 - c) Human resource plan
 - d) All of the above.
6. Which of the following is not a major component of marketing plan? **1**
 - a) Product
 - b) Promotion
 - c) Price
 - d) Policy.

7. Which right is generally applied to literary work, music, composition, poems, etc? 1
 - a) Patents
 - b) Copyright
 - c) Trademark
 - d) Trade secret.

8. _____ is related to coordination and cooperation between all the activities of value chain. 1
 - a) Linkage
 - b) Value chain analysis
 - c) Primary activities
 - d) Competitive advantage.

9. _____ measures the profitability of the company from common stockholders point of view. 1
 - a) ROI
 - b) ROE
 - c) EBITDA
 - d) None of the above.

10. _____ is the quantity at which the ordering cost is equal to the inventory cost. 1
 - a) Maximum inventory level
 - b) Minimum inventory level
 - c) Economic order quantity
 - d) Cost of storage of material.

11. Name two elements of business opportunity. 2

12. Write two systems of inheritance under Hindu Law. 2

13. State any two features of good business plan. 2

14. Increase in sale by 10% in next quarter is a 'SMART' goal. Do you agree? 2
Give reason for your answer.

15. Write any two features of franchise. 2

16. Explain any two types of acquisition. 2

17. Write any two classifications of budget according to time. 2

18. Explain four ways of market assessment. 4

19. Explain four considerations of vendor management. 4

20. Define venture capital. State three considerations of venture finance. 1+3= 4

21. a. Write any six recent technological changes of Indian market. 6
Or
b. "Problem identification helps in spotting opportunity and creating a business idea". Explain.

22. a. Explain any six objectives of budgeting.

Or

6

b. Excessive working capital results in unnecessary accumulation of wastage of capital whereas shortage of working capital effects the smooth flow of operating cycle. In the light of the statement, discuss any six factors affecting working capital.

23. a. Write six functions of IDBI.

Or

6

b. Explain the main features of venture capital.

24. a. Explain the benefits of private company over public company.

8

Or

b. "Financial plan is a critical section of business plan as it translates all the other parts of business in anticipated financial results". Do you agree? Explain various components of financial plan. (1+7=8)

25. a. Define channels of distribution. Explain seven functions of distribution channels.

1+7=8

Or

b. In spite of best efforts of entrepreneurs and management, a business may fail. In the light of the statement, explain any eight causes of business failure. (8)

2025
ALTERNATIVE ENGLISH

Total Marks: 80

Time: 3 hours

General instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
 - ii) *The question paper consists of 23 questions divided into 3 sections A, B, & C.*
 - iii) *Attempt questions based on specific instructions for each part. Write the correct number in your answer sheet to indicate the option/s being attempted.*
 - iv) *General and Internal choice have been provided in some questions.*
- N.B:** *Check that all pages of the question paper is complete as indicated on the top left side.*

SECTION – A (LITERATURE)
PROSE

1. **Choose the correct answer from the alternatives given:** **4x1=4**
- a. Nehru says that _____ gives a complete and dogmatic answer to the quest of mankind.
 - (i) science
 - (ii) religion
 - (iii) philosophy
 - (iv) history
 - b. According to Bertrand Russell there are several factors that contribute to wisdom. The factor he considers first is _____.
 - (i) a sense of proportion
 - (ii) comprehensiveness
 - (iii) emancipation
 - (iv) awareness of the ends of human life
 - c. Which followers are full of inconvenience and taint business through want of secrecy?
 - (i) Costly followers
 - (ii) Glorious followers
 - (iii) Espials
 - (iv) Ordinary followers
 - d. Who brought an old primer to the class in ‘The Last Lesson’?
 - (i) The former postmaster
 - (ii) The former Mayor
 - (iii) Franz
 - (iv) Old Hauser
2. Why does Nehru see man’s story as being more important than those of other beings? **2**
3. According to Russell, why is comprehensiveness alone not enough to constitute wisdom? **2**

4. How was M. Hamel dressed on the last day of the French lesson? Why was he leaving? 2+1=3
5. a. Explain with reference to the context:
"With every increase of knowledge and skill, wisdom becomes more necessary, for every such increase augments our capacity of realizing our purposes, and therefore augments our capacity for evil, if our purposes are unwise."
Or 4
- b. What does M. Hamel say about the importance of French language?
6. a. *The mind has carried man a long way in his voyage of discovery. As he has learnt to understand Nature more he has utilized it and harnessed it to his own advantage, and thus he has won more power. But sadly he has not always known how to use this new power, and he has often misused it. Science itself has been used by him chiefly to supply him with terrible weapons to kill his brother and destroy the very civilization that he has built up with so much labour.*
- (i) What has led man to the voyage of discoveries? 1
- (ii) How did science become a bondage of destruction? 1
- (iii) Give any two reasons on how man misused the new power. 2
- (iv) Based on the given lines, what can be the synonym of the word 'civilisation'? 1
- | | |
|----------------|---------------|
| a. Advancement | b. Society |
| c. Ambition | d. Excellence |
- Or
- b. *It is good discretion not to make too much of any man at the first; because one cannot hold out that proportion. To be governed (as we call it) by one is not safe; for it shows softness, and gives a freedom to scandal and disreputation; for those that would not censure or speak ill of a man immediately will talk more boldly of those who are so great with them...*
- (i) What does the speaker mean by 'good discretion'? (1)
- (ii) An apt antonym for the word 'hold' is (1)
- | | |
|---------|------------|
| a. save | b. release |
| c. keep | d. protect |
- (iii) What does the speaker mean by 'too much of any man at the first'? (1)
- (iv) What kind of freedom to scandal and disreputation is the speaker talking about? (2)

POETRY

7. **Choose the correct answer from the alternatives given:** **2x1=2**
- a. John Donne in his poem 'Death Be Not Proud' presents _____ and _____ as the pictures of Death.
- | | |
|----------------------|------------------------------|
| (i) poppy and charms | (ii) kings and desperate men |
| (iii) rest and sleep | (iv) poison and war |
- b. What are the weavers weaving at the fall of night?
- | | |
|---------------------------------|--------------------------------|
| (i) Robes of a newborn child | (ii) Dead man's funeral shroud |
| (iii) Marriage veils of a queen | (iv) Plumes of a peacock |
8. "And all the men and women merely players." Why are the men and women merely players? **2**
9. What is the significance of the reference to the statue of Neptune by the Duke? **2**
10. **Critically analyse the lines given below in about 60-90 words. Answer any one (1).** **1x4=4**
- a. *And then the justice,
In fair round belly with good capon lined,
With eyes severe and beard of formal cut,
Full of wise saws and modern instances;*
- b. *Weavers weaving at break of day,
Why do you weave a garment so gay?...
Blue as the wing of a halcyon wild,
We weave the robes of a newborn child.*
11. a. *Death, be not proud, though some have called thee
Mighty and dreadful, for thou art not so,
For those whom thou think'st thou dost overthrow,
Die not, poor Death, nor yet canst thou kill me.*
- | | |
|---|----------|
| (i) Identify the poetic device used for the word 'Death'. | 1 |
| (ii) What does the speaker mean by 'dost overthrow'? | 1 |
| (iii) How does the speaker condemn death? | 2 |
| (iv) Why does the speaker say 'nor yet canst thou kill me'? | 1 |
- Or**
- b. *Or blush, at least. She thanked men, - good! But thanked
Somehow - I know not how - as if she ranked
My gift of a nine-hundred-years old name
With anybody's gift. Who'd stoop to blame.*
- | | |
|---|------------|
| (i) Who is 'she' referred to here? | (1) |
| (ii) What does 'My gift of a nine-hundred-years-old name' mean? | (1) |

- (iii) What do these lines tell us about the character of the Duke? (1)
- (iv) Why is the speaker displeased with the woman being referred to? (2)

DRAMA

- 12. What was the reaction of Uncle James towards Philip at the beginning of the play and why? 2
- 13. *Well, I think that Philip's four years out there have made him more of a man; He doesn't seem somehow like a boy who can be told what to do.*
 - a. Who is the speaker here? 1
 - b. What does the speaker mean by the above statements? 2
- 14. a. Give the character sketch of Aunt Emily. 5

Or

 - b. Explain the generation gap in society in the context of the conflict between Uncle James and Philip regarding the latter's employment.

FICTION

- 15. Who is Estella's biological mother? 1
- 16. Describe the convict in the marshes. 2
- 17. What was Pip's great expectation? Why did he want to achieve that? 1+2=3
- 18. a. *Break their hearts, my pride and hope,
Break their hearts and have no mercy.*
 - (i) Who said this and to whom? 1
 - (ii) By 'their hearts', whose hearts is the speaker referring to? 1
 - (iii) Why does the speaker say the given statement? 2

Or

 - b. *Yes, Pip, dear boy, I've made a gentleman on you! It's me wot has done it! I swore that time, sure as ever I earned a guinea, that guinea should go to you. I swear afterwards, sure as ever I spec'lated and got rich, you should get rich. I live rough, that you should live smooth; I worked hard that you should be above work...*
 - (i) "I've made a gentleman on you!" Here who is 'I' referred to? (1)
 - (ii) What does Pip learn from the speaker? (1)
 - (iii) Why does the speaker confess about his earnings to Pip? (2)
- 19. a. Give a character sketch of Pip. 5

Or

 - b. Explain the theme of 'social class' from the novel 'Great Expectations'.

SECTION – B (GRAMMAR)

20. **Fill in the blanks with suitable prepositions:** **3x1=3**
- _____ the rains, we had a great evening.
 - Sentilong settled at Kohima _____ Nagaland.
 - I have not spoken to her _____ a month.
21. **Insert correct conjunctions:** **3x1=3**
- Kevi ran fast, _____ he could not win the race.
 - Please wait for me _____ I return.
 - It has been long _____ I met her.
22. a. **Correct the following sentences and rewrite them:** **2x1=2**
- I will meet you on the evening.
 - He knows how to cook but his wife don't.
- b. **Choose the right word given within the brackets to complete these sentences:** **2x1=2**
- Where did you (lose/loose) your bag?
 - She has been denied (access/excess) to a lawyer.

SECTION – C (READING)

23. **Read the passage given below and answer the questions that follow:**
- While there is no denying that the world loves a winner, it is important that you recognize the signs of stress in your behavior and be healthy enough to enjoy your success. Stress can strike anytime, in a fashion that may leave you unaware of its presence in your life. While a certain amount of pressure is necessary for performance, it is important to be able to recognize your individual limit. For instance, there are some individuals who accept competition in a healthy fashion. There are others who collapse into weeping wrecks before an exam or on comparing mark sheets and finding their friend has scored better.
 - Stress is a body reaction to any demands or changes in its internal and external environment. Whenever there is a change in the external environment such as temperature, pollutants, humidity working conditions, it leads to stress. In these days of competition when a person makes up his mind to surpass what has been achieved by others, leading to an imbalance between demands and resources, it causes psychological stress. It is a part and parcel of everyday life.
 - Stress has different meaning, depending on the stage of life you are in. The loss of a toy or a reprimand from the parents might create a stress shock in a child. An adolescent who fails an examination may feel as if everything has been lost and life has no further meaning. In an adult, the loss of his or her companion, job or professional failure may appear as if there is nothing more to be achieved.

4. Such signs appear in the attitude and behavior of the individual as muscle tension in various parts of the body, palpitation and high blood pressure, indigestion and hyperactivity. Ultimately the result is self-destructive behavior such as eating and drinking too much, smoking excessively, relying on tranquilisers. There are other signs of stress such as trembling, shaking, nervous, blinking, dryness of throat and mouth and difficulty in swallowing.

5. The professional under stress behaves as if he is a perfectionist. It leads to depression, lethargy and weakness. Periodic mood shifts also indicate the stress status of the students, executives and professionals.

6. In a study sponsored by World Health Organisation and carried out by Harvard School of Public Health, the global burden of diseases and injury indicated that stress diseases and accidents are going to be the major killers in 2020.

- a. Why is it important to recognize the signs of stress in your behavior? **1**
 - (i) To recognize your individual limit
 - (ii) To score better marks
 - (iii) To enjoy success
 - (iv) Because stress can strike anytime

- b. What cause psychological stress? **1**
 - (i) Changes in external and internal environment
 - (ii) When a person decides to surpass an existing achievement leading to imbalance in demands and resources.
 - (iii) Factors such as temperatures, pollutant, humidity, working condition, etc.
 - (iv) Changes in occupation

- c. What are the signs of stress? **1**
 - (i) A person is always in a happy mood
 - (ii) A person becomes a workaholic
 - (iii) A person becomes despondent
 - (iv) A person becomes self-destructive

- d. Select the most suitable title for the above passage. **1**
 - (i) Stress: Understanding the impact on your mind and body
 - (ii) Importance of mental health
 - (iii) The stress epidemic
 - (iv) Stress management

- e. Find the antonym of the word 'praise' from paragraph 3. **1**
- f. Complete the sentence with appropriate inference with reference to the following: **1**
Stress can have _____ meaning depending on the person's age.
- g. Mention two consequences of stress. **2**
- h. Find the synonyms of – **1+1=2**
(i) Beat (paragraph 2)
(ii) Depending (paragraph 4)

2025
HINDI

Total Marks: 80

Time: 3 hours

General instructions:

- i) Approximately 15 minutes is allotted to read the question paper and revise the answers.
- ii) The question paper consists of 24 questions divided into 4 sections A, B, C & D.
- iii) Attempt questions based on specific instructions for each part. Write the correct number in your answer sheet to indicate the option/s being attempted.
- iv) General and Internal choice have been provided in some questions.

N.B: Check that all pages of the question paper is complete as indicated on the top left side.

SECTION – A (पठन परिक्षण)

1. निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए :-

राष्ट्र केवल जमीन का टुकड़ा ही नहीं बल्कि हमारी सांस्कृतिक विरासत होती हैं जो हमें अपने पूर्वजों से परंपरा के रूप में प्राप्त होती हैं। जिसमें हम बड़े होते हैं शिक्षा पाते हैं, और सांस लेते हैं – हमारा अपना राष्ट्र कहलाता है और उसकी पराधीनता व्यक्ति की परतंत्रता की पहली सीढ़ी होती हैं। ऐसे ही स्वतंत्र राष्ट्र की सीमाओं में जन्म लेने वाले व्यक्ति का धर्म, जाति, भाषा या संप्रदाय कुछ भी हो, आपस में स्नेह होना स्वाभाविक है। राष्ट्र के लिए जीना और काम करना उसकी स्वतंत्रता तथा विकास के लिए काम करने की भावना राष्ट्रीयता कहलाती हैं।

जब व्यक्ति किसी दूसरे व्यक्ति से धर्म, जाति, कुल के आधार पर व्यवहार करता है तो उसकी दृष्टि संकुचित हो जाती है। राष्ट्रीयता की अनिवार्य शर्त है – देश को प्राथमिकता, भले ही हमें 'स्व' को मिटाना पड़े। महात्मा गाँधी, सुभाषचंद्र बोस आदि के कार्यों से पता चलता है कि राष्ट्रीयता की भावना के कारण उन्हें अनगिनत कष्ट उठाने पड़े किंतु वे अपने निश्चय में अटल रहे। व्यक्ति को निजी अस्तित्व कायम रखने के लिए पारस्परिक सभी सीमाओं की बाधाओं को भुलाकर कार्य करना चाहिए तभी उसकी नीतियाँ – नीतियाँ राष्ट्रीय कही जा सकती हैं।

जब – जब भारत में फूट पड़ी तब – तब विदेशियों ने शासन किया। चाहे जातिगत भेदभाव हो या भाषागत – तीसरा व्यक्ति उससे लाभ उठाने का यत्न अवश्य करेगा। आज देश में अनेक प्रकार के आंदोलन चल रहे हैं। कहीं भाषा को लेकर संघर्ष हो रहा है तो कहीं धर्म या क्षेत्र के नाम पर लोगों को निकाला जा रहा है जिसका परिणाम हमारे सामने है। आदमी अपने अंह में सिमटता जा रहा है। फलस्वरूप राष्ट्रीय बोध का अभाव परिलक्षित हो रहा है।

दिए गए प्रश्नों में से सही उत्तर चुनकर लिखिए :-

a. विरासत किस रूप में प्राप्त होती हैं?

1

- | | |
|-------------------------|-----------------------------|
| (i) पूर्वजों के रूप में | (ii) राष्ट्रीयता के रूप में |
| (iii) परंपरा के रूप में | (iv) स्वभाविक रूप में |

- b. स्वतंत्र राष्ट्र में आपस में _____ स्वभाविक है। 1
 (i) घृणा (ii) स्नेह
 (iii) नफरत (iv) लड़ाई
- c. राष्ट्रीयता की अनिवार्य शर्तें हैं – 1
 (i) देश को प्राथमिकता (ii) देश की उपेक्षा
 (iii) देश से नफरत (iv) इनमें से कोई नहीं
- d. आज देश में कितने प्रकार के आंदोलन चल रहे हैं? 1
 (i) एक प्रकार (ii) दो प्रकार
 (iii) तीन प्रकार (iv) अनेक प्रकार
- e. हमें अपने पूर्वजों से परंपरा के रूप में क्या प्राप्त होती है? 1
- f. व्यक्ति की दृष्टि कब संकुचित हो जाती है? 1
- g. राष्ट्रीयता क्या है? 2
- h. व्यक्ति को निजी अस्तित्व को कायम रखने के लिए क्या करना चाहिए? 2

SECTION – B (संरचना)

2. निम्नलिखित प्रश्नों में से किसी एक प्रश्न का उत्तर 150 से 200 शब्दों में दीजिए :-
- a. 'प्लास्टिक थैलियों का उपयोग' फायदे तथा नुकसान विषय पर एक वस्तुनिष्ठ निबंध लिखिए।
 अथवा 6
- b. मोबाइल फोन के उपयोग से होने वाले लाभ – हानि विषय पर दो मित्रों के बीच वार्तालाप लिखिए।
3. निम्नलिखित प्रश्नों में से किसी एक प्रश्न का उत्तर 50 शब्दों में दीजिए :-
- a. मुद्रित का व्याकरण एवं संरचना संबंधी त्रुटियों को संशोधित करते हुए संपादन कीजिए :-
 हरा झंडी दिखाते ही रेलगाड़ी लोहा की पटरी पर दौड़ने लगा। कुछ यात्री चाय पी रहा था तो कुछ बातें में खोये हुए मग्न थे। गाड़ी कब अगला स्टेशन पहुँची, पता ही नहीं चली। कुछ यात्रियों वहीं उतर गये बचे शेष सब आगे चले गए।
 अथवा 4
- b. अपने विद्यालय में आयोजित होने वाले 'शिक्षक दिवस' पर अपने विद्यालय के सभी शिक्षकों को आमंत्रित करते हुए एक निमंत्रण पत्र लिखिए।

SECTION – C (व्याकरण एवं अनुवाद)

4. निम्नलिखित शब्दों के संधि – विच्छेद कीजिए :- 2×1=2
 (a) महोदय (b) उल्लास
5. निम्नलिखित सामासिक पदों का विग्रह कीजिए :- 2×1=2
 (a) महात्मा (b) रात – दिन
6. निम्नलिखित शब्दों के दो – दो पर्यायवाची शब्द लिखिए :- 2×1=2
 (a) पृथ्वी (b) आंख
7. निम्नलिखित मुहावरों के अर्थ लिखकर वाक्य में प्रयोग कीजिए :- 2×1=2
 (a) गला छूटना (b) खुशी से फूला न समाना
8. अनुप्रास अलंकार किसे कहते हैं? एक उदाहरण द्वारा स्पष्ट कीजिये। 2
9. छंद कितने प्रकार के होते हैं? उनके नाम लिखिए। 2
10. हिंदी में अनुवाद कीजिए :- 3
 The ceremonial dresses of both men and women in Nagaland are quite splendid. The men carry colourful spears decorated with dyed goat hair, their headgear is made of bamboo woven with flowers and feathers, there are arm bands made of elephant tusks and necklaces of wild boar teeth.

SECTION – D (साहित्य)**गद्य – भाग**

11. निम्नलिखित विकल्पों में से सही उत्तर चुनकर लिखिए :-
- a. पूस का महीना किस तरह का होता है? 1
 (i) भीषण ठंड का (ii) वर्षा का
 (iii) अत्यधिक गर्मी का (iv) तेज हवा चलने का
- b. माँ ने सामने वाले लड़कों को चाय पर क्यों बुलवाया? 1
 (i) तनु से दोस्ती करने के लिए
 (ii) तनु उनके साथ पढ़ाई करें
 (iii) तनु उनके साथ फिल्म देखने जाए
 (iv) तनु उनके साथ घूमने जाए
- c. सबसे बड़ा पत्थर किसका प्रतीक था? 1
 (i) सोप्फून्यो के पुत्र का (ii) कोसोहो का
 (iii) बरसाती का (iv) सोप्फून्यो का

- d. बारिश होने की आशंका से बच्चों की टोली इंद्र भगवान से किस प्रकार पानी के लिए प्रार्थना करते हैं? 1
- (i) भूख हड़ताल करते हुए (ii) मंदिर में भोग लगाते हुए
(iii) जयकारे लगाते हुए (iv) तीर्थ यात्रा करते हुए
12. लेखक के मन में पैसे जोड़ने के प्रति कैसी धारणा होती है? 2
13. गाँव की स्त्रियाँ कोसोहो तथा जेन्यूये से क्यों जलती थी? 2
14. आज की तथाकथित आधुनिक पीढ़ी न तो पूरी तरह अपने परंपरागत मूल्यों से मुक्त हो पाई है और न ही नये मूल्यों को पूरी तरह अपना पाई है। इस कथन की समीक्षा कीजिए। 3
15. निम्नलिखित कथन, किसने, किससे तथा क्यों कहे हैं :- 1+1+2=4
- a. "मुझे आपत्ति है। जब प्रस्ताव हिंदी में है तो संस्था का नाम भी हिंदी में होना चाहिए।"
- अथवा
- b. "देख भइया, रूठ मत, मेरी बात सुन यह सब अंधविश्वास नहीं है।"
16. निम्नलिखित प्रश्नों में से किसी एक प्रश्न का उत्तर दीजिए :-
- a. थोड़ी देर में अलाव जल उठा। उसकी लौ ऊपरी पत्तियों को छू - छूकर भागने लगी थी। उस अस्थिर प्रकाश में बगीचे के विशाल वृक्ष ऐसे मालूम होते थे, उस अथाह अंधकार को अपने सिरों पर संभाले हुए हैं। अंधकार के उस आनंद सागर से यह प्रकाश एक नौका के समान हिलता - मचलता हुआ जान पड़ता है। हल्कू अलाव के सामने बैठा आग ताप रहा था। एक क्षण में उसने दोहरी उतारकर बगल में दबा ली, दोनों पांव फैला दिए, मानों ठंड को ललकार रहा हो, 'तेरी जी में आए सो कर। ठंड की असीम शक्ति पर विजय पाकर वह विजय - गर्व को हृदय में छिपा नहीं सकता था।'
- (i) पत्तियों को कौन छू रहा था? 1
- (ii) अंधकार को किसने अपने सिर पर उठा रखा था? 1
- (iii) नौका के समान किसे बताया गया है? 1
- (iv) हल्कू ने ठंड को किस प्रकार ललकारा है? 1
- (v) हल्कू ने किस पर विजय प्राप्त किया था? 1
- अथवा
- b. बाजार आमंत्रित करता है कि आओ मुझे लूटो और लूटो। सब भूल जाओ, मुझे देखो। मेरा रूप और किसके लिए है? मैं तुम्हारे लिए हूँ। नहीं कुछ चाहते हो, तो देखने में क्या हरज है। अजी आओ भी इस आमंत्रण में यह खूबी है कि आग्रह नहीं है, आग्रह तिरस्कार जगाता है। लेकिन ऊँचे बाजार का आमंत्रण मूक होता है और उससे चाह जगती है। चाह मतलब अभाव। चौक बाजार में खड़े होकर आदमी

को लगने लगता है कि उसके पास जो है काफ़ी नहीं है और चाहिए। मेरे यहाँ कितना परिमित है और यहाँ कितना अतुलित है ओह!

- (i) बाजार क्यों आमंत्रित करता है? (1)
- (ii) आग्रह क्या जगाता है (1)
- (iii) ऊँचे बाजार का आमंत्रण कैसा होता है? (1)
- (iv) चौक बाजार में खड़े आदमी को क्या लगता है? (1)
- (v) 'परिमित' का अर्थ है - (1)
- (a) अथाह (b) सीमित

पद्य भाग

17. निम्नलिखित विकल्पों में से सही विकल्प चुनकर लिखिए :-

- a. कवि को बारिश के मौसम में किसकी याद आती है? 1
 - (i) घर की (ii) दोस्तों की
 - (iii) प्रेमिका की (iv) गाँव की
- b. खरगोश की आंखें कैसी होती हैं? 1
 - (i) लाल (ii) छोटी
 - (iii) पीली (iv) बड़ी

18. मायके में आई बहन के लिए कवि ने घर को परिताप का घर क्यों कहा है? 2

19. कवि ने क्या सहर्ष स्वीकारा है कविता के आधार पर लिखिए। 2

- 20. a. जाने क्या रिश्ता है, जाने क्या नाता है,
जितना भी उडेलता हूँ, भर – भर फिर आता है।
 - (i) यह पंक्तियाँ किस कविता से ली गई हैं? 1
 - (ii) इस कविता के कवि कौन हैं? 1
 - (iii) इन पंक्तियों के माध्यम से कवि क्या कहना चाहता है? 2

अथवा

- b. आज पानी गिर रहा है, बहुत पानी गिर रहा है,
रात भर गिरता रहा, प्राण मन गिरता रहा है।
 - (i) यह पंक्ति किस पाठ से ली गई है? (1)
 - (ii) इस कविता के कवि कौन हैं? (1)
 - (iii) इस पंक्ति का आशय स्पष्ट कीजिये। (2)

21. निम्नलिखित पद्यांश में से एक की संदर्भ एवं प्रसंग सहित व्याख्या कीजिए :-

- a. राम – नाम मणि – दीप धरू, जीह देहरी द्वार।
तुलसी भीतर बाहिरौ, जो चाहसि उजियार॥

अथवा

1+1+3=5

- b. दुनिया का सबसे पतला कागज उड़ सके,
बांस की सबसे पतली कमानि उड़ सके,
कि शुरू हो सके सीटियों, किलकारियों और तितलियों इतनी नाजुक दुनिया।

कथा साहित्य

22. निर्मला को तोताराम के पास बैठने में संकोच क्यों होता था? 2
23. उदय भानुलाल के यहाँ निर्मला के विवाह की तैयारियां कैसी चल रही थी? 3
24. निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए:-

a. निर्मला को अब कुछ अच्छा लगता था तो वह सुधा से बातें करना था। वह वहाँ जाने का अवसर ढूँढती रहती थी। बच्ची को अब वह अपने साथ न ले जाना चाहती थी। पहले जब बच्ची को अपने सभी चीजें खाने को मिलती थी, तो वह वहाँ जाकर हंसती खेलती थी। अब वहाँ जाकर उसे भूख लगती थी। निर्मला उसे घूर – घूरकर देखती, मुट्टियाँ बांधकर धमकाती पर लड़की भूख की रट लगाना न छोड़ती। इसलिए निर्मला उसे अपने साथ न ले जाती थी। सुधा के पास बैठकर उसे मालूम होता कि मैं आदमी हूँ। उतनी देर के लिए वह चिंताओं से मुक्त हो जाती।

- (i) निर्मला को अब क्या अच्छा लगता था? 1
- (ii) निर्मला अब बच्ची को अपने साथ क्यों नहीं ले जाना चाहती थी? 1
- (iii) बच्ची क्या रट लगाना नहीं छोड़ती थी? 1
- (iv) सुधा के पास बैठ कर निर्मला को कैसा लगता था? 1
- (v) निर्मला बच्ची को कैसे धमकाती थी? 1

अथवा

b. यह कहकर कल्याणी कमरे में चली गई। आंगन में आकर उसने एक बार आकाश की ओर देखा, मानो तारागण को साक्षी दे रही हैं कि मैं इस घर से कितनी निर्दयता से निकाली जा रही हूँ। रात के ग्यारह बज गये थे। घर में सन्नाटा छा गया था, दोनों बेटों की चारपाई उसी कमरे में रहती थी। वह अपने कमरे में आई, देखा चन्द्रभानु सोया है, सबसे छोटा सूर्यभानु चारपाई पर उठ बैठा है। माता को देखते ही वह बोला – तुम तहाँ दई ती अम्मा?

- (i) कल्याणी कहाँ चली गई? (1)
- (ii) कल्याणी किसको साक्षी दे रही थी? (1)
- (iii) कल्याणी के कमरे में किसकी – किसकी चारपाई थी? (1)
- (iv) दोनों बेटों के क्या नाम थे? (1)
- (v) 'तुम तहाँ दई ती अम्मा?' किसने और किससे कहा? (1)

2025
BENGALI

Total marks : 80

Time : 3 hours

General Instructions:

- i) Approximately 15 minutes is allotted to read the question paper and revise the answers.
 - ii) The question paper consists of 23 questions divided into 4 sections A, B, C, & D.
 - iii) Attempt questions based on specific instructions for each part. Write the correct number in your answer sheet to indicate the option/s being attempted.
 - iv) General and Internal choice have been provided in some questions
- N.B:** Check that all pages of the question paper is complete as indicated on the top left side.

বিভাগ - ক (পাঠ)

1. নিম্নলিখিত অংশটুকু ভালো করে পড়ে প্রশ্নগুলোর উত্তর লিখ:-

আদিবাসী বা Tribe বলতে সেই মানুষদের বোঝান হয় যাদের পূর্বপুরুষ এই ভারতবর্ষে আদিম বাসিন্দা। এদের গায়ের রং কালো বলে ভারতবর্ষকে কৃষ্ণভারতবর্ষ বলা হত। এদেরকে নেগ্রিটো বলা হত। কেরলের কানুকুর, পানিয়ান মুখিওয়ান, উড়ালি প্রভৃতিরা নেগ্রিটো। অন্যদিকে সাঁওতাল মুন্ডা, ভিল, শবর, চেনচু, হোস প্রভৃতি আদিবাসীদের প্রোটো অস্ট্রালয়েও বলা হত।

খাসি, গারো, ডাফনা, লালুং, চাকমা, কাছারি কুকি প্রভৃতি জনগোষ্ঠীরা মঙ্গোলীয় গোষ্ঠীর, ভৌগোলিক বন্টন অনুসারে আদিবাসীদের তিনটি অঞ্চলে ভাগ করতে হয়:-

- (i) উত্তর ও উত্তর পূর্ব ভারতের রাজ্যসমূহ।
- (ii) মধ্যভারতের বিভিন্ন এলাকা।
- (iii) দক্ষিণ ভারতের রাজ্য সমূহ।

সাঁওতালদের বাস 2 ন মূলত পশ্চিমবঙ্গে। বিবহোড়, গন্ত, মুন্ডা, ওরাওদের বাস বিহারে। অবর, নাগা, খাসি প্রভৃতিদের বাস হল উত্তর পূর্বাঞ্চলে, খন্ডদের বাস হল ওড়িশাতে, কেরালা, মধ্যপ্রদেশে, লেপচারা সিকিমে, মুড়িয়ারা ছত্রিশ-গড়ে, চেনচু-রা অন্ধ্রপ্রদেশে, কুকিরা মনিপুরে।

মিনা-রা রাজস্থান, টোডা-রা তামিলনাড়ুতে বাস করে। পশ্চিমবঙ্গে স্বীকৃত আদিবাসী গোষ্ঠী প্রায় চল্লিশটি এবং মোট জনসংখ্যার নিরিখে আদিবাসীর সংখ্যা প্রায় 25 শতাংশ। পশ্চিমবঙ্গে আদিবাসীদের ছাঁটি শ্রেণীতে ভাগ করা হয়। শক্তিশালী এবং বৃহৎ গোষ্ঠী, ক্ষুদ্র ও দুর্বল গোষ্ঠী। সাঁওতাল, মুন্ডা, ওঁরাও, হো, কুড়মী গোষ্ঠীর আদিবাসীরা শক্তিশালী গোষ্ঠীর।

নীচের উত্তরগুলি থেকে সঠিক বিকল্পটি বেছে নাও-

(a) 'Tribe' শব্দটির বাংলা শব্দ হলো-

1

- | | |
|----------------|--------------|
| (i) জনগোষ্ঠী | (ii) আদিবাসী |
| (iii) বাসিন্দা | (iv) নিগ্রো |

(b) আদিবাসীদের গায়ের রং কী ?

1

- | | |
|--------------|------------|
| (i) সাদা | (ii) কালো |
| (iii) বাদামী | (iv) ধূসর। |

- (c) কেরলের আদিবাসীদের কী বলা হয় ? 1
- (i) নেথ্রিটো (ii) আজিটো
- (iii) কালীটো (iv) লেপ্চা
- (d) ‘কালো’ শব্দটির বিপরীত শব্দ হলো- 1
- (i) নীল (ii) লাল
- (iii) সাদা (iv) হলুদ
- (e) কেরলের যে কোনো দুইটি আদিবাসী গোষ্ঠীর নাম লেখ? 1
- (f) খাসি, গারো, নাগা প্রভৃতি জনগোষ্ঠীরা কোন অঞ্চলের বাসিন্দা 1
- (g) আদিবাসী কুকিয়া কোন রাজ্যে বাস করত? 1
- (h) ভৌগলিক বন্টন অনুসারে আদিবাসীদের কয়টি অঞ্চলে ভাগ করা হয়? 1
- (i) পশ্চিমবঙ্গে স্বীকৃত আদিবাসী কয়টি ? 1
- (j) তামিলনাড়ুতে বাস করা আদিবাসীর নাম লিখ? 1

বিভাগ - ‘খ’ (রচনা ও নির্মিতি)

2. নীচের প্রশ্নগুলির উত্তর প্রায় ‘150’ থেকে ‘200’ টি শব্দের মধ্যে লিখ:-

- (a) রচনা লিখঃ আতিথেয়তা (Hospitality)
- অথবা 6
- (b) মনে কর তুমি জন অথবা মেরী, ‘বিজ্ঞান আর্শীবাদ না অভিশাপ’ এই নিয়ে আলোচনা কথোপকথনের মাধ্যমে কর।

3. নিম্নলিখিত প্রশ্নগুলির উত্তর 50’ টি শব্দের মধ্যে লিখঃ

- (a) বিখ্যাত কিংবদন্তি খেলোয়ার সুনীল গাভাসকরকে তোমার বিদ্যালয় “Holy Child” স্কুলের বাৎসরিক পুরস্কার বিতরণী উৎসবে প্রধান অতিথির আসন অলংকৃত করার জন্য একটি আমন্ত্রণ পত্রের খড়া কর।

অথবা

4

- (b) অশুদ্ধ সংশোধন বা সম্পাদনা করঃ-

ঋতুচক্রের প্রথম ঋতু বর্ষা, বৈশাখ ও জ্যৈষ্ঠ মাসকে নিয়ে তার স্থিতিকাল। এই বর্ষা এসে তার রৌদ্রের তাপে বাংলা প্রকৃতির বুককে শুকিয়ে দিয়ে যায়। প্রখন তপন তাপে আকাশ ভিজে থাকে। গ্রীষ্মের সন্ধ্যা প্রত্যেক তাপিত প্রাণীর কাছে আরামদায়ক নয়। চাঁপা ও বকুলের সৌরভ, আম-কাঁঠালের সুবাস ও দখিলা বাতাস আমাদের প্রাণকে জুড়িয়ে দেয় না। আষাঢ়-শ্রাবণ মাস নিয়ে গ্রীষ্ম ঋতুর ব্যবস্থিকাল বর্ষার প্রচন্ড তাপে খাল-বিল, নদী-নালা পুকুর-দিঘী যখন জলমগ্ন হয়ে ওঠে, গ্রীষ্ম তখন তাতে প্রান সঞ্চার করে।

বিভাগ - 'গ' (ব্যাকরণ ও অনুবাদ)

4. দ্বন্দ্ব সমাস কাকে বলে ? উদাহরণ দাও। 2
5. ব্যাসবাক্যসহ সমাসের নাম লিখ। 3x1=3
- (i) তীর্থযাত্রা (ii) কচুপোড়া (iii) পঞ্চনদ
6. অলংকার কাকে বলে? 2
7. উদাহরণ সহ সংজ্ঞা লিখ- 1x3=3
- (i) শ্লেষ অলংকার
- অথবা**
- (ii) স্বভাবোক্তি অলংকার
8. নিম্নলিখিত বিশিষ্টার্থক পদগুলির দ্বারা বাক্য রচনা করঃ 2x1=2
- (i) শিমূল ফুল (ii) গৌরচন্দ্রিকা
9. বাংলায় অনুবাদ করঃ- 3
- The ceremonial dresses of both men and women in Nagaland are quite splendid. The men carry colourful spears decorated with dyed goat hair, their headgear is made of bamboo woven with flowers and feathers, there are arm bands made of elephant tusks and necklaces of wild boar teeth.

বিভাগ - 'ঘ' (সাহিত্য)

গদ্যাংশ

10. নীচের উত্তর গুলি থেকে সঠিক বিকল্পটি বেছে নাও- 4x1=4
- (a) বিড়াল কাদের প্রতিনিধি ?
- (i) নিরন্ন দরিদ্রের (ii) ধনীব্যক্তির
- (iii) অসুস্থ রোগীর (iv) ভিখারী দলের
- (b) খেমটার নাচের আসরে কে বসে ছিল?
- (i) হরিচরণ (ii) শ্যামাচরণ
- (iii) গুরুচরণ (iv) পরেশ
- (c) কোনটি নৈতিক মূল্যবোধ?
- (i) সুকুমার কলা (ii) নিষ্ঠা
- (iii) প্রেম (iv) ঝগড়া করা
- (d) নরেশ ও পরেশের ছোট ভাইয়ের নাম কী?
- (i) তপেশ (ii) তারকেশ্বর
- (iii) শ্যামাকরণ (iv) হরিচরণ
11. “মানুষের মন” পাঠটির লেখক কে? পল্টু কে? 1+1=2

12. পরেশকে কে পড়া দেখিয়ে দিতেন ? তাঁর ছেলের নাম কী ছিল? 1+1=2
13. ইংরাজি 'Value' শব্দের অর্থ কী ? এই শব্দটির দ্বারা মানুষের অন্তর্নিহিত কোন গুণগুলিকে বোজায়? মানুষের কোন আচরণ গুলিকে মূল্যবোধ আখ্যা দেওয়া হয়? 1+1+1=3

14 (a) “কেহ মরে বিল ছেঁচে কেহ খায় খই”

- | | |
|---------------------------------------|---|
| (i) এই প্রবাদ বাক্যটি কোন পাঠের অংশ ? | 1 |
| (ii) লেখক কে ? | 1 |
| (iii) উক্তি কে কাকে করা হয়েছে ? | 1 |
| (iv) প্রবাদ বাক্যটির অর্থ কী ? | 1 |

অথবা

(b) “মঙ্গল মাবকেশ, তিনি রুগ্ন হয়েছেন”

- | | |
|---------------------------|-----|
| (i) কোন পাঠের অংশ ? | (1) |
| (ii) লেখকের নাম কী? | (1) |
| (iii) উক্তিটি কে করেছেন ? | (1) |
| (iv) মঙ্গল কে ? | (1) |

15. (a) “রক্ত কিসের মোক্ষদা, ব্যাপার কি?”

- | | |
|--|---|
| (i) কোন পাঠের অংশ ? | 1 |
| (ii) উক্তিটি কার ? | 1 |
| (iii) মোক্ষদা কে ? | 1 |
| (iv) মোক্ষদাকে এমন উক্তি করা হয়েছে কেন ? এর উত্তরে মোক্ষদা কী বলেছিল? | 2 |

অথবা

(b) নৈতিক মূল্যবোধ কাকে বলে? কয়েকটি নৈতিক মূল্যবোধের নাম লিখ? (3+2=5)

পদ্যাংশ

16. নীচের উত্তরগুলি থেকে সঠিক বিকল্পটি বেছে নাও:- 2x1 =2

(a) ‘রূপাই’ কবিতাটি কোন কাব্যগ্রন্থের অন্তর্গত?

- | | |
|-----------------|-----------------------|
| (i) রূপসী বাংলা | (ii) নক্সী কাঁথার মাঠ |
| (iii) সোনার তরী | (iv) খাপছাড়া |

(b) ‘নবী’ কথার অর্থ কী?

- | | |
|------------------------|----------------|
| (i) ঈশ্বরের প্ররিত দূত | (ii) ঠাকুরমশাই |
| (iii) মোল্লা | (iv) জিন |

17. “তোমার মঙ্গল ঢাকি গড়িছে যে ঘোর ব্যবধান”- কোন কবিতার অংশ? “মঙ্গল ঢাকি” কথার অর্থ কী

1+1=2

18. বেদ কী ? বেদ কত প্রকার?

1+1+=2

19. (a) “তোমার আসন হতে মেথায় তাদের দিলে ঠেলে”-

- | | | |
|-------|-------------------------|-------|
| (i) | কোন কবিতার অংশ ? | 1 |
| (ii) | কবির নাম কী ? | 1 |
| (iii) | কে, কাকে ঠেলে দিয়েছে ? | 1+1=2 |

অথবা

(b) “জারীর গানে তাহার গলা উঠে সবার আগে”

- | | | |
|-------|-----------------------|-----|
| (i) | কোন কবিতার অংশ ? | (1) |
| (ii) | কবির নাম কী ? | (1) |
| (iii) | কার কথা বলা হয়েছে? ? | (1) |
| (iv) | জারীর গান কী ? | (1) |

20. (a) “এই কন্দরে আরব দুলাল শুনিতেন আহবান

এইখানে বসি গাহিলেন তিনি কোরাণের সামগান”।

- | | | |
|-------|-------------------------|---|
| (i) | কবিতাটি কার লেখা? | 1 |
| (ii) | ‘কন্দর’ শব্দের অর্থ কী? | 1 |
| (iii) | কোরাণ কী? | 2 |
| (iv) | ‘আরব দুলাল’ কে ? | 1 |

অথবা

(b) “শ্যামার নরম গান শুনেছিল - একদিন আমরা গিয়ে”-

- | | | |
|-------|----------------------|-----|
| (i) | কার কথা বলা হয়েছে ? | (1) |
| (ii) | শ্যামা কী ? | (1) |
| (iii) | অমরা কী ? | (1) |
| (iv) | নরম গান কী ? | (2) |

কথাসাহিত্য

- | | | |
|---------|--|---------|
| 21. | ‘সাইক্লোনের সময় শ্রীকান্ত কোথায় বসেছিল? সে কিভাবে আত্মরক্ষা করেছিল? | 1+1=2 |
| 22. | শ্রীকান্ত বর্মার যাচ্ছে কেনো? কোলকাতা থেকে বর্মায় কী করে যেতে হয়? বর্মায় যাওয়ার আগে কোন রোগের পরীক্ষা করা হয়েছিল? | 1+1+1=3 |
| 23. (a) | গঙ্গাজল কে ছিল? শ্রীকান্তের মা গঙ্গাজলকে কী বলেছিলেন? শ্রীকান্তকে গঙ্গাজল জেরা করেছিল কেনো? | 1+2+2=5 |

অথবা

- | | | |
|-----|--|---------|
| (b) | “কখন এলেন? এখানে দাঁড়িয়ে যে”? কে, কাকে উক্তিটি করেছে? বক্তার পরিচয় দাও? | (2+3=5) |
|-----|--|---------|

2025
TENYIDIE

Total Marks: 80

Time: 3 hours

General instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 19 questions divided into 4 sections A, B, C & D.*
- iii) *Attempt questions based on specific instructions for each part. Write the correct number in your answer sheet to indicate the option/s being attempted.*
- iv) *General and Internal choice have been provided in some questions.*

N.B: *Check that all pages of the question paper is complete as indicated on the top left side.*

SECTION – A (Kesi Mhaphrü)

1. Thedzeu phrülie di ketsokebako kelashülie:

1. We kepelemia kechü Kepenuopfü ze keperokecü pie mhathokezhatho-u chüya, sidi kethodie phrü, kecha chü, kehouki nu vo ituoya. Hauha puotou zo derei we mhapuo le ketsolie motayakezhau sü, themia mu themia donu keperokecü. Ketholeshü nu ngukelie Kepenuopfü ze keperokecü mu u siezanuomia ze keperokecü unie kedziese sei tuoya.

2. Tuokepra 20 nu thezho kerie diako Kepenuopfü ze keperokecü die khakeshü ngulie. Süsie thezho kekrei sorouko u siezanuomia ze keperokecü die khakeshü ngulie. We huoniehüo khrielie mota ro, we kepero kebau bierhuokewau rübei monyü Kepenuopfü ze kepero kebau sa bierhuowaya, kekreiblamonyü thezho kenieu varhuokeshüu kephoumata zokecü la.

3. Jisu kelhou mehoshü ro, Jissue kijü nu lhoukecü teiki, puotei kekreibtsatie pie themia khruohi, mu themia kekhrrie mhatho chü phishükecü ngulieya. We thie kepelemia üdi themia khrie pfülie moketamia ba phite. Kehouko nu shürhei phikecü mhie kecha chüya derei themia ze keperokecü nu themia khrie pfülie motaya. Themia kekra rei thie nyiu nyilie ro, u tha kerükrie puo ngu-u ngulie ro idi themia ze kepero kebau sü pie mhathokemo mhie tuotaya. Mia puoe pukecü hakemhie, themia ha kesia zhü gei zhüta tse, puo kelev vo puo shükeiraka, puo ki puo lie, puo mhatho-u nu monyü, puo mu puo Kepenuopfü unie keperokecü kimhie di lhouwate shikecü lelie ro kesia zhü gei phi zorei rünoukemo ze kesewalie lho isi.

4. We kimhie di u siezanuomia ze keperokecüu sede ta? Thiethie kelhou nu themia ze keperokecü nu se morosuotho-u sü ‘kekhrrie’ zo. Süla we Kepenuopfü khriekelie mu u siezanuomia khriekelie unie shükho kekreibwalie kenjükecü ngulie. We thie mha hakoha le menuoshü di u kele chü kesa lalie morosuo ba. We

khunhie vo Kepenuopfü mhodzü thakelie ki puo zatsa kethamia chülietuo me? Sükisü kedi puo zatsa kethako üse, “A puo japie nieko ketsüko nieko vor di kijü chülie tse nunu kedi kesepie nieko merütuoquetau weliecie” (Mathi 25:34) isi.

5. Mha hako phrü mu medo lakeshü geinu n nou chü chükesa lalie üro thie sikeliu dieze chüshülie. Mhakevikechü la thie hau puotei kevitho

Ketsokecü:

- (a) We kepelemia kechü _____ ze keperokecü pie mhakezhatho-u chüya. 1
- (i) Phichümia (ii) Siezanuomia
- (iii) U krünuo (iv) Kepenuopfü
- (b) We thie _____ üdi themia khrie pfülie moketamia ba phite. 1
- (i) Kepelemia (ii) Zhapumia
- (iii) Thejakepfümia (iv) Ruokuomia
- (c) Tuokepra 20 nu thezho kitsuoko Kepenuopfü ze keperokecü die khakeshü ngulie ga? 1
- (i) Kenieko (ii) Seko
- (iii) Diako (iv) Pengouko
- (d) Kedipuo kechü la thie hau puotei kevitho ga? 1
- (i) Dieze (ii) Mha kevi kechü
- (iii) Kekhrie (iv) Kepele
- (e) ‘Shükho’ ikecü dieca hayo puo kepetsou dieu thushülie. 1
- (f) ‘Varhuokewa’ dieca hau puo ze kemhiekcü cau khashülie. 1
- (g) We huoniehüo khrielie mota ro kedipuo bierhuowaya ga? 2
- (h) Themia ha kesia zhü gei zhüta ro kedipuo le petuotaya üsi ga? 2

SECTION – B (Thedze Kezo)

2. **Hanie puo (1) kedapie dieca 150-200 mese nunu thushülie:**

- a. ‘Kedietho zho-ue kevitho’ (honesty is the best policy) icü cayie hau geinu ese thushülie.

Moro

6

- b. Kephrünuomia khrietho kenie-e leshüki nu rüli (recess) keba teiki Dzükou thechü keziviu nu vo mha mehoshü nyü di kerüchü keba Rüchüdie (dialogue) puo thushülie.

3. **Hanie puo (1) kedapie thushülie:**

- a. Noe Kevi/Kevinuo vorkezhü Cacü zha 20, 2025 ki n nuo-u/nuopfü kiya tuoü ba. Süu pemvü di Kethezhocecü Phreikie (formal invitation) puo thushülie. Morokesuo kepfhesilie keviko khashülie. Dieca 50 mese nu thushülie.

Moro

4

b. **Diecha khakeshüko se di khune kemhiececü (copy editing) chüshülie:**

Menga ikecü ha dieca kekuo puo, hau kenyü sieso-u zo. Hau ca si pevikelie geinu thezho kevi medzi di lhoulieya. Shürho shürheilieya, thehie chü lhoulieya mu kenymia chülieya. Hau liro themia zhorüli dzephprü mu mhale bode puo. Themia zomonyü Kepenuopfü nei chükecü chadi puo rei zo. Kemenga si kecü sü mha kesuo, ketheva kephouma morei themia mu Kepenuopfü mhodzü nu shuo ücü kheko si di chü mo, rütse mu thi di therhiekiele mhasi mu mhale ko zo. Ca kekrei puo la ro ketheziekecü cau nunu par. Kehoupuorei kijü nu lhou vor di puo thuo puo la rei mu kekreamia la rei chüshükezhü puo mese nu chülie mota ro puo mhale puotou moketa rhiu nunu thamele partaya. Kemenga ca kesimia mu kelemia u zho u rüli suoketa cha jü. Hau geinu mia puoe menoudi lhoulieya. Sümho rei kekreamia se pfülieya.

SECTION – C (Diezho)

4. **Hako chatha khakeshü medzi di kelashülie:**

12x1=12

- a. Kisama-e thechü kemeyie puo. (*Diecha hau nu zaliu thashülie*)
 b. Rüdikemo dietho puo pie diecha chüshülie.
 c. Kepenuopfü pelelie mu mha kevi chülie. (*Diekheu rhieshülie*)
 d. Kephrünuoko teisonhie leshüki nu vor seiya. (*Diecha nu puotei diebau thashülie*)
 e. Supuo die hau pu ba ga? (*'Supuo' hau pie miakra dieza nu thushülie*)
 f. A thie likhuo kesa puo khrülie. (*Kerheiro kejü thenuthepfu zakieu rhieshülie*)
 g. _____ teikhrie bu a lie va phrewate. (*Ungo pfhephra thushülie*)
 h. Puo mithu kezha puo ba. (*Ketsakekra dietso rhieshülie*)
 i. Puo kidepuo pie tuota ga? (*Ketsokecü dieba kiu nu ba ga?*)
 j. 'Cha' hau se tsüle nu thushülie.
 k. Uko pete pherete. (*Zasou-u thashülie*)
 l. Azuo tezie nu mhachü ba. (*Diepeu rhieshülie*)

5. **Hakhro kebau Tenyidie nu thuyie chüshülie:**

3

The ceremonial dresses of both men and women in Nagaland are quite splendid. The men carry colourful spears decorated with dyed goat hair, their headgear is

made of bamboo woven with flowers and feathers, there are arm bands made of elephant tusks and necklaces of wild boar teeth.

SECTION – D (Diemvü)
Thedze

6. **Hako donu puotou-u kedashülie:** **4x1=4**
- a. Virüzoumo nuo nhicu-u za supuo ga?
 (i) Vipephu-o (ii) Mengubeizo
 (iii) Lhouvituo (iv) Ngao
- b. Vitsonyü krünie za liro _____.
 (i) Lhouvozoü mu Khonyü (ii) Khonyü mu Shürheinyü-ü
 (iii) Vitso mu Shürheinyü-ü (iv) Khriemo mu Kedisenyü
- c. U pfutsanuoko kelhou teiki supuae tsia krüshü kemochie miapuorei tsia du kenyü üsi ga?
 (i) Tsiakrau (ii) Liedepfü
 (iii) Zievomia (iv) Kemevo-u
- d. Suomia üse ‘Terhuomia sieso’ üya ga?
 (i) Phichümia (ii) Pehümia
 (iii) Krütamia (iv) Mhakesimia
7. U Tenyimia kelhouzho nu kedipuo keprei la u ngumvümia vie cü mu krieya mo ga? **2**
8. Thedze ‘Hai di lhou vo zotuo me’icüu nu thiesie themia kimhie taketuo kethu-u pushü ga? **2**
9. U pfutsanuoko kelhou teiki kimhiecü mia üse Krüta üya ga? **3**
10. a. Viphezou sü rüna kimhiecü puo ga? Kedisenyü mu Vitsonyü unie nhicu nu kedziese kevor dze thushülie. **2+2=4**
- Moro**
- b. U pfutsanuoko kelhou teiki thehouba se kemeyie phi vor ücü kimhie di pulie vi ga? Mu thehoutheba nu kedipuo chü, silie mu dojülieya üsi ga?
11. a. Suomia kedikechüki puo diecha hako puya ga?
 (i) *Hou! No tsie haita hieluo monyü, ba di avu keperhie sashü monyü.* **1**
 (ii) *Suomiane puo ruonuo suo,*

- A thu theshietheü geipie kezhi ngu di!* 2
 (iii) *A ruo a ra chü mo ho,*
Mia a ketshüketou, a ketsekeshü la ho. 2

Moro

- b.** *Hou, lukonuomia suomia soso rei di, kemhie zapfü be,*
mia razou nyiepou chü ba ketho-e,
 (i) Die hau supuo pu ga? Puotou-u kedashülie – (1)
 (a) Keviphuü (b) Keviphuü zuo
 (c) Vipephu-o (d) Virünoumo zuo
 (ii) Lukonuomia sü suomia pu ba ga? (1)
 (iii) Keviphuü die kicüpuo pushü ga? (2)
 (iv) Keviphuü-e kedipuo khapie Mengubeizo tsüshü ga? (1)

Geizo

12. **Hako donu puotou-u kedashülie:** 2x1=2
 a. Kewhimia rüzhü tei vor ro supuo rhei ba thenyüsieya ga?
 (i) Neilasa (ii) Suosahie
 (iii) Sazo (iv) Lhoupfi
 b. _____ kra kebara kelhou chatha vi baya.
 (i) Khriesarüümia (ii) Nhicunuomia
 (iii) Phichümia (iv) Thepfumia
13. ‘Kenei kekra ki ketho yopuo vi’ icü geizo-u nu ükezo-ue themia kimhiekecümia
 üse ruokuothomiaü pu ga? 2
14. ‘Kekhriethoko’ geizo-u nu ükezo-ue themia bu rhei pecha ba di puo rei
 nhicumia kemhie kedipuo mengu üdi pu ga? 2
15. **Geizo diecha hanie puo (1) kedapie puoca vatshashülie:** 1x4=4
 a. *Mha kevi cha puo nuonuoko tsü,*
Ketha ngu ru kedichienü shi,
Tsie ki kelhou a mhi pie kengu,
Phichü tuo mo nhicumia rübei.
Moro
 b. *Cie mepfü nu zivilie moro,*
Cie ser nu kekuo therüta,
Cie hiedia nu mhanyilie lhota,
Cie hiepengou pralieta derei.
16. a. *Kepenuopfü nhamieyepounuo*
Rütso thuo rei chü kezivishü

Kezha tuoi themianuo ha bu

U kepou se zhapu chütuoi

Kepenuopfü nei chülie thienyü.

- (i) Diecha hako supuo zoshü ga? 1
- (ii) Suomia pie nhamenyiepounuo ze kemejüshü ga? Mu kedipuo la ga? 1+1=2
- (iii) Ükezmia-e khriesarüümia ki puo kemengu kimhiecü puo pushü ga? 2

Moro

- b.** *No we lhou sie mele sedelie,*
Kenienuo nie merü kelho chü,
Mhathomhachü pete nie rüdie,
Kerülei tei pejüyaluolie.

- (i) Diecha hako geizo kiu nunu se par ga? (1)
- (ii) Puokrüe puo gei kedipuo merü ba üsi ga? (2)
- (iii) Thenumia bu kedipuo kejü la ja tuo monyü supuo nei chülie di teigei kedi nu uya kevimia chülienu pu ga? (2)

Noudo Dze

- 17. 'Kepenuopfü u se ba' rüsie hau supuo thushü ga? Tsieteu nu themia kekra kedipuo kele se lhou phi tuote üsi ga? 1+1=2

- 18. Ruopfükhrielie-e puo se mhodzü khunhie puo nuonuoko, puo tsunuoko kieshü di kedipuo se uko tarhoshü üsi ga? 3

- 19. **a.** *Hieko kikru la nnie teigeidieliemia zotelie, kidepuo rei hieko khrieta ga?*
(i) 'Hieko kikru' hau supuo kikru ga? 1
(ii) Suomia üse uko kikru la teigeidieliemia mhieta üdi pu ga? 1
(iii) Kedipuo la diecha hau pushü ga? 3

Moro

- b.** *No thenumia geinu penuo vor mote me? N Puo kilonser chü ba mu nieko manyi bacü la no thenumia pesepie hadepuo chüshü me?*
(i) Diecha hako suomia pu ga? (1)
(ii) Supuo thenumia kepese mhatho kimhiecü puo chüshü üsi ga? (2)
(iii) Kilonser nuo-u kelhou tha kimhiecü puo nunu lhou vor üsi ga? (2)

2025
SUMI (SÜTSAH)

Total Marks: 80

Time: 3 hours

General instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 21 questions divided into 4 sections A, B, C & D.*
- iii) *Attempt questions based on specific instructions for each part. Write the correct number in your answer sheet to indicate the option/s being attempted.*
- iv) *General and Internal choice have been provided in some questions.*

N.B: *Check that all pages of the question paper is complete as indicated on the top left side.*

KOKÜPHA – A (Akipphi)

1. Hi aqhou yepüakeu akivishi phino iniji akeu khochile lo:

1. Khaghi ni sülimi lakhi lije Nisheli ipi keu ache. Nisheli ye kinikülü bolono pekighimi. Aphu tipau lo apumi lakhi ache. Pa je Pheo pa ye kumülhomi bolono pekighimi.
2. Iti lono Pheo ngo Nisheli pama aghili la lono kuthulu che. Kichimi shivekethiu ghi pama küküsü cheuve.
3. Ikemu Pheo no hitoi kümsü Ino Nisheli ini Pinamu apu-aza no nikujo akibo shini keu pulo tsüno nani. Tighenguno kijili lakhi Pheo no Nisheli kupüzü pama aküzü lono küpütsa-a. Muchomi lakhi no pama miqea no pama tsa chiluve pa je ye Kutupa.
4. Pheo nopi Anisheo! “Ino putho lono ozüa mishi lo kukhunike no ye anhemgha kutope ipape wunima?” Nisheli ghi alo pive. Amuchou no ti chilu veno, Pheo no ighi miphi lono Nisheli züa phivilo aki kukhu eno li ye Pheo kughashi pa papesü chewuve.
5. Pama ala kushuwo lo chewu ve kethiu Pheo sütsa toi mokehu lipi ghi cheno, atsala vü ipighi kelo Pheo kumove aghi kelo liye qa auve. Kutupa no li ghozü jü pühave tighenguno pa no li küghape asübo lo phedaveno ghiqhive püzü aphu lo idewove.
6. Ghulo lakhi Pheo no aghami gholo ashi hawu. Pheo no Nisheli ghiqhive keu ghasülo haighilu. Tile ihulokeu shi tsüqu-tsüghuve Pheo no asübo lakhi ijepe ngoa Nisheli no axamunu ilhouve keu no pa kichiqo shiftsü. Aghami no pa hapupove aye axamunu no pa papeno pa kichego shiftsüa kehu, Pheo ye ighono pa kümüzaqhia. Pa no wonikelo axamunu kitila yethape pa kini lo chepu wove. Pa no

putho lo zühughi kelo Nisheli pumolu. Li no pa vilo “Kutupa noghenguno niliyo küghüna mulavae, Nisheli no pi Ino timi dolo ghi osüşhope ake no ye kushiye ighüzave kea?” Thonau Pheo no pa ngu eno pa kini juke loye aji kutomo aghi keu ithulu no pa müloghime shive. Nisheli no axamunu ilhouve keu pe ‘Anishe xamunu’ ipi cheni.

- (a) Khaghi ni sülimi lakhi li je ye khuu kea? 1
 (i) Li je ye Nisheli
 (ii) Li je ye Nikhuli
 (iii) Li je ye Nishela
 (iv) Li je ye Nitoli
- (b) Apumi lakhi pa je khuu kutoi kemi kea? 1
 (i) Pa je ye khumtsa eno ighono ghenimi
 (ii) Pa je ye Pheo eno kumulhomi lakhi
 (iii) Pa je ye Akhaku kinimi lakhi
 (iv) Pa je ye Khukixi khukuchumi lakhi
- (c) Pheo ngo Nisheli pama ye khileno kuthulu eno kishive kea? 1
 (i) Pama ye alulo huke lono kuthulu no xü ache
 (ii) Pama ye asükighe la lono kuthulu no kumtsa asüghewu ache
 (iii) Pama akiphi ki lono kuthulu no kümsta phiwu che
 (iv) Pama ye aghili la lono kuthulu no küküsü che
- (d) Khuu no Pheo no ighimiphi lono Nisheli sasü wuve kea? 1
 (i) Pheo no sasü wuve
 (ii) Khuu no mu sasü wumoe
 (iii) Kutupa no sasü wuve
 (iv) Nisheli no ili süsü wuve
- (e) A-a kümsa lo achipiu tsa shepichi tsü lo: 1
 _____ kibo shitsü mo nani.
- (f) Akütsü lo tsa (title) achipiu kishe phetsülo: 1
 (i) Aghasa xamunu
 (ii) Anishe xamunu
 (iii) Ayiko xamunu
 (iv) Lapu xamunu
- (g) Hipaqo ye kiu kea? 1+1=2
 (i) Kinimi
 (ii) Kumülhoni

- (h) Akhudo 6 lo akeu ye khuno khuu kicheqo shitsü eno pa ye kishive kea? Khuno kuu lhave kea? 2

KOKÜPHA – B (Akiye)

2. **Lakhi likhi atsathi 150-200 dolono yelo:**

- a. Ghili kiye: Lhoxü pighi keu lo ameküa.

Momu

6

- b. Oje Ikavi/Ikali shino opu nokujo akuküpütsa (dialogue) lono the akeu dolo Computer class luni keu opu sasü küpütsa keu yelo. Aje sükeu nu eno qokiphe lame khijehi sünani keno yelo.

3. **Hiküma dolo lakhi yelo:**

- a. **Yekumüzü (copy editing) eno ngomichi süno yelo:**

athiu angushuu no ighipu ashi khila wuvea kea? Pi iniju anenguno iqora, iqira ipike tileshino angushuu no anengu hekulupe lavela lo vesüve ke tighenguno anengu ye lavela lo xücheni pike tishi no angushuu ye aki lo wove.

Momu

4

- b. Kuküsü (Invitation) lono oje Viluto/Viluli shino no kiphiki lo akiyetou kiqu lono no classmi qo vilo shikükami tsala ikhilu niye akeu lo kümütsü ighi mosakheu pilo eno shikükamiquo lau kuküsü akivishi ye lo atsala, ado eno a-a khileno shini keno yelo.

KOKÜPHA – C (Tsayeh eno Pekide)

4. **Jeshe achipiu pe atsajo kümsa lo shepichi tsülo:**

4x1=4

- a. Li ye li lini _____ pühave.
b. Delhi ye _____ kije.
c. Timi _____ thiveni pütsa.
d. Itimi _____ kümütsü nguno akiviu.

5. **Atsa küqü akeu shikümzü tsülo:**

4x1=4

- a. Anhemügha hupama hilau khipuwolo.
b. Nono ma-akupu lono ighi ani o kümgha.
c. Angu no angushu che.
d. Akha hipau polo aukhu kutomo ani.

6. **Sülekutho hipaqo kiqu yehlo:**

4x1=4

- a. Ashikimthe toi
b. Aji küküpütsa
c. Atsü baxa lo ikulo
d. Angakihe kugho

7. **Sumi tsahlo pekide suvelo:** **3**
 The ceremonial dresses of both men and women in Nagaland are quite splendid. The men carry colourful spears decorated with dyed goat hair, their headgear is made of bamboo woven with flowers and feathers, there are arm bands made of elephant tusks and necklaces of wild boar teeth.

**KOKÜPHA – D (Tsaiko Kughakiche)
Kughakiche**

8. **Achapiu khokichile kishephe tsü lo:** **4x1=4**
- a. Khuno ghami no Shesülimi lau asügha luche kea?
 (i) Hebolimi (ii) Ighanumi
 (iii) Chisholimi (iv) Chishilimi
- b. Kughenguno Lora Raja ye timiqo azaku pipeve
 (i) Akukau shipemonike
 (ii) Aqemi shipemoni ke
 (iii) Alu kümlami shipemoni ke
 (iv) Akükau qholo müla pemonike
- c. Gen. Kaito ye khuuno ghami kea?
 (i) Ghukiye (ii) Vishepu
 (iii) Kivukhu (iv) Ghukhuyi
- d. Kalalishi nipuje ye khu kea?
 (i) Khakhuli (ii) Khunili
 (iii) Tsünela (iv) Akhüshi
9. Sümi ahukilau (Mokokchung Division) lo ayelütüghiu je khu eno pa gholotimi khijehino ayeluve kea? **1+1=2**
10. Kalalishi nipu je khuu kea? Pama khileno kusholu no panipu shive kea? **1+1=2**
11. Shesu no Hebo vilo, “Chisho ye o sasü aghü shiniye ani puzu noye kushi ani kea?”ipi. Ilaghi chisho viloghi titoi pi. Shesü no pama dolo kidiakeu hu no kuchou küghashi pama ye kimithi kile thuve. Khu ghenguno khu pama kimithikile che kea? Okükümüsü lo ye kiu vethalu ani kea? Kishi xü masa kea? **3**
12. a. Nagami Khristo yeluve kethiu alhoaye khipaqo qhiveno kiu toi keu kükü xü wuve kea? **2+2=4**

Momu

- b. Gen. Kaito ye ittilo kishi akusami sasü ili che kea? Army Captain
ye panoqo vilo kiu shilopi kea? (2+2=4)
13. a. *Noye hile ngokeve no atolomi yeghi lo povelö, kughengu Lora Raja no O pithive niyeamüqü shithuva. Ikemu Godadhor no ishi khochile, kujomo sheo, ni ye kushi po ani kea? Ikemu pa nipu no ighono aghoshi no ye kiu kiu shimu atolo Konyakmi yeghi lo pove lo ipi auve kehu pa ye Konyakmi yeghi lo pove.*
- (i) No ye hile ngokeve no atolomi yeghi lo pove lo khuno khu vilo pi ani kea? 1
- (ii) Lora Raja no opithiveni ye amüqü shithuva khu pithive niyeshi kea? 1
- a) Joymoti b) Raja
- c) Godadhor d) Ahom
- (iii) Pa nipu no aghoshi pi auve pa nipu je khu kea? 1
- (iv) Khuno yeghi lo pove lopi kea? 1
- (v) Pa ye pove keo mokea? 1

Momu

- b. “Noye a-a momu akutho ato hipau ithi ani ma?” ipi iniju aye pa no pi “Hi ghi ighütsü qa, isükighe la, iyeh kighela, eno ikighithiqa.” Ipi pa khochile.
- (i) Hi ye khuuno kiphi lo ani kea? (1)
- (ii) Noye a-a momu akutho ato hipau ithi ani ma? Khuno khu iniju kea? (1)
- (iii) Hi ghi ighütsü qa khu no pi kea? (1)
- (iv) Kushi hipaqo iniju akea? (1)
- (v) Pa ye khu tsa ini pe hipaqo shi kea? (1)
- a. Pa thiküzüu tsa ini pesü
- b. Pa chepu tsa ini pesü
- c. Pa nipu tsa ini pesü
- d. Pa kūsau tsa ini pesü

Leshe

14. **Achiptu khochile tsülo:** 2x1=2
- a. Khuu no leshe lono aghi kuwo shecheghi kea?
- (i) Tüghünakha leshe (ii) Viyishe Nagutomi
- (iii) Arkha leshe (iv) Azüküzü kinnhi leshe
- b. Tüghünakha leshe lo liye anguku khijehi pusüthimo no aghi kea?
- (i) Anguku 8 pesü (ii) Anguku 9 pesü
- (iii) Anguku 10 pesü (iv) Anguku 11 pesü

15. *Ghukhe kivi lono Hokhüli no lau*
Juküsü vilo ye Hevishe papu
Ikujo apuh assü kümmtsa ghi
Thukighimi kumo ghoshi wono
 Kushiye leshe kiyeu ye hipaqo pi ani kea? 2
16. Khuu no kiu ghenguno aghi kuwo Shekhani cheghi kea? 2
17. **Mütsümishei keu lono lakhi likhi atsathi 60-90 dolono ku pi ani keno yelo:** 1x4=4
- a. *O yesükha no no ye sapu kixi no o shomhi shi pokha*
O Hoishe Ana kimichi puno ghi ishehe!
No züta lekupu hi pesü ayina khigha cheila.
- b. *Iluh kuccho aye, Ino chehu junu*
Ighu ilou kishie chini keno
Pinaimu Ni ye apuh aza kishimi no
Kutotsü ye Ni lotsü no akiviu philuni chemo ye.
18. a. *Alukichi paju kinheshu chewo.*
Tiye nilu kumoye ipu nono luye
Punu kishimi no ilu ghuza kivi
Lukha aye lukupuwo,
Shoinapu tsüna yemoye.
- (i) Khuno leshe lono atsa hipaqo pi ani kea? 1
- (ii) Ni lu kumo ye khuu no lu kea? 1
- (iii) Punu kishimi no nilu lukhava khu no luve tsü kea? 1
- (iv) Lukha aye ipi akeu ye kupi ani kea? 1
- (v) Shoinapu tsüna yemo ye kupi ani kea? 1
- Momu**
- b. *O hoishe! Inu Ilhoshe noghi*
Alokivi shi auve ye shim lave ala!
O hoishe Ino ala küttau ye
I je ku kunulo kichemi
Akuxumi nu kimiye alo.
- (i) Khuno leshe lono pi ani kea? (1)
- (ii) Ilhoshe papu je ye khu kea? (1)
- (iii) Ilhoshe papu ye khilauno ale shipuwo tsü kea? (1)
- (iv) Papu ye kushi ke lono thive kea? (1)
- (v) Alokivi shi auve ye _____ mlave ala. (1)
- a) xüche b) shi
- c) to d) vi

Lotsüh Kiyee

19. Appu ye khile zü kelono kiu samo pumolu eno khila wu kea? 1+1=2

20. Appu no kiu phuwu chekea? Alhikishiu no khila wunishi che kea? Kimiyemi no khuu phu che kea? 1+1+1=3

21. a. *Niye ambe khemi shini, Apuh no kiu mu pimove no inaqoyive. Thoghiu apuh huno Jolabo kuloti lono Milhomi Spanish shuna muqo küthu akeu appu tsü. Hipaqo ye alu lono ithulu kego ke. Hipaqo pe o mhoghi shipeni shiae. Ikemu hipaqo pesü ambe lojiqo qhulu lo eno olah lo sawulo. Apuh no paw kükümügha appu shou bevetsü.*

(i) Khuno niye ambe khemi shini ipi kea? 1

(ii) Apuh ye kiu thime pe appu tsü kea? Aje ghi yeh lo. 1+1=2

(iii) Thime appu tsükego ye khilano süghi eno kuushipeni patsü kea? 2

Momu

b. *I je ye Melchizedek amouchou nopi Ni ye Salem lono lono punue ipi lu nani. Appu huye Salem khile ani keno mutha. Salem ye kiu toi kepi layi? Pa no aghola likhimu ithi nishi kehu. Pa ye aghola mu mütha ke. No ye kiu shicheni kea? Amuchou no nughi pi "Ni ye Salem lo akükau ke. Pa ye ighono pa kümzave. Amuchou no pa vilo no ye ambe khiyehi ani kepi inju. Lukumkha ani ipive. Appu ye ambe 6 tsügho pe pa tsüve.*

(i) Hiye khu pama küpütsa keu kea? (1)

(ii) Niye Salem lono punue ipi lu nani hiye khuu kea? (1)

(iii) Pa ye ambe khiyehi pe patsüve kea? (1)

a) 3 küthü pe patsü

b) 4 Bidi pe patsü

c) 5 pungu pe patsü

d) 6 tsügho pe patsü

(iv) Niye Salem lo akukau hiye khuu kea? Eno appu je ye khuu kea? (1+1=2)

2025
AO

Total Marks: 80

Time: 3 hours

General instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 19 questions divided into 4 sections A, B, C & D.*
- iii) *Attempt questions based on specific instructions for each part. Write the correct number in your answer sheet to indicate the option/s being attempted.*
- iv) *General and Internal choice have been provided in some questions.*

N.B: *Check that all pages of the question paper is complete as indicated on the top left side.*

SHILEM – A (Züngang aser langzüang)

1. Agüja aliba olenji junga züngang aser tasüngdangbatemji langzüang:

1. Khen mapang ka nung kanga takar aser ochishir nisung ka Risangnok liasü. Pa temeranger asojen tajung den tobur tajung merahtaket aser tashitait, tetemjen nisung ka liasü. Kinungtsü Temsenna aser tena jaboso waluba, Akikaba na liasü.
2. Jabaso anaji nübu majung dang par kanga takar aküm. Anungji kika süchi ajak katema kaa yimer chiyungdakja liasü. Yamaji par kibong kanga temoatsü manung pelatepa liasü. Yimer nungi khonang naroküm teperi ngua aser paria yimer kanga meima sensaker yaria aru. Nisung onsara jungrabaji oda yimeri memoai aoksaa tesasatsüka tanur den kinungtsü toktsür süadok. Tebutsüi jabaso anaji tera nübu junga mesütet. Tebu meliaka jabaso anaji nisung tajung, tena dak yimeri kanga sakloka meima liasü. Saka ano oda tejashitsüka tena toktsür tetsüa süadok aser lajar aküm.
3. Walubai tenu kikaba dang kanga meima tenati tsüraburi toktsüba sen, kiset shiruru aser tsük timi amshia tena kanga azükarua tsürabur aliba mapang dang nungi tali takaba aküm. Par yimtak tebu tembar Naklongba liasü. Tsürabur taküm alidang mepelateti tenük merema liasü. Ano kodang tembar kinungtsü asü idang-jiang tali pela liasü. Saka tema nungbo kanga sasa temulung shirangseta sayu, iba dangji anemsü ta ajar. Kechiyong jembiba aser mapa balala. Adianu anaji sübong tajung aika liasü. Item rongnung sübong ka kanga balaka tulu, apetasongmaket onsara tajung ka dena liasü. Waluba dangi tebu tembaji arua, “nebui küdang sübong ka apua lir” ta ashi. Iba o angashia adianu anaji kanga shisabulu aser yimer tambur tebu tembar ajak dang kibok nung asüngdangtep saka tiyazü ta kuli angu.
4. Iba o atema tenati yim jazüka yim salang nung o aka. Yimertemi Naklongba aitsü, saka obendang magizüki Naklongbai ain adoka yimer den kanga rara aser azüngashia züngtepdi ta yimden nung o benlok. Iba densa par yimtak süli aoba arasener ka sangmongpi nisung ka liasü. Naklongbai tamasabo oda par sübong aika lirji melamela pa nem agütsütsü ta bilema liasü. Yimertemi yim

salang nung temezünger arasenerji asür Risangnok dangi asüyimi ludaktsütsü lemtet. Sangmongpiji süli or asü yim nung Risangnok dang ner jabaso ana dang ne tembai nai apua agia aliba atema süpong meshir ta ashi.

5. Idangji asüri asüing ni yimtaki arutsü ta osang agütsü. Anungji tananüji yimer ajak anembonga amung. Teroto nungbo yimer ajak ki shibanger asürji koda arutsü aser kechi koma ataloktsü ratamata tulu nung ola madoki kilung nung ata ali.

6. Yimdong ajak azüing azünga alidang aser nisungtem mulung ammag agi nembang ama alidang mepet agi anüing ajak sübang aser mangmanga aküm. Oagi talang nung anüngtom nungi ola tila ka jangja jangja a yimkongi angashia nisung ola den külemi shientsüzü shi arishir ama arua atong. Tongtibangsa par jabaso anati yongyabaji tebu tanelai kechi shidir ta yongyaseta ano atentena ata liasü. Anüing tom nungi ola tejangja agi reptet repteta yamai ayimoktsü. Hai asen yimertem, ni nenok tonga arua jembiner saka lungpak agi tongdang ni maruteter. Angang! ni akhümlü dang meranga inyakba den tiabai moatsüyong ozü rongsen agi yimer ajak peladakja peridaktsüogo. Ni shinga danga sentsühtsüa mali. Anungji kari sentsühtsüa lir ta bilema lira dang shiang, ta ayimoktsü, saka shinga ola madok nung “Alima nung ochi mashirbo akoksatsü”. Alima nung tangar dak tenük jalua merumerurapang paji asüyim nung meyutsüngbai obendangtsü ta shia olaji tila küma oadok.

7. Joko tananepji ajak pei mapai aotsü asoshi sangwali ki lapoka akhi ama ki semtep, naklongba den ajuruteptsü parnok par kidangi ao, saka ki melapoki liasü. Yimer jatepa par jadang, melangzük nung, ki lapoka atu. Par kinunger ajak süadoker liasü. Kibong ajunga anentsüh agi nembang ama aküm. Tansütsü otsü tulu aküm. Ochi mashi, merumeru aser tangar mokokachiba tatem nung peibo peisa akoksar ta otsü nung jembir.

Tasüngdangbatem:

Agüja aliba nungi shitak ojang shimteta langzüang:

4x1=4

- (a) Adianu anaji sübong tajung _____ liasü.
 (i) aika (ii) tera
 (iii) kar (iv) talubusa
- (b) Tsüraburi toktsüba rongsen nung iba ya maden _____.
 (i) sen (ii) sentsüh
 (iii) tsük (iv) sü
- (c) Nisung aser asür naji _____ agi tongdang majurutet.
 (i) tzüyim (ii) ali
 (iii) lungren (iv) lungpak

- (d) Asü yim nungi _____ ajanga Risangnok par yimtaki aru.
 (i) arasener (ii) waluba aser tenu
 (iii) yimertem (iv) yimden
- (e) Risangnokji komala nisung ka liasü? 1
 (f) Yimertemi par kibong den koma benshi? 1
 (g) Risangnok tembarji shiba aser pai kechi inyak? 2
 (h) Iba otsü nungi nai kechi angazüker? 2

SHILEM – B (Olem)

2. **Ana rongnung ka shimteta ojang 150-200 tashi nung langzüang:**
 a. ‘Asüngteta aliba tamaitü aser temoatsü’.Otsünu ka zülüang.
Mesüra 6
 b. ‘Tim kibalenbu’ indang ner medemer nena tsüngda sensaksem ka zülüang.
3. **Ana rongnung ka shimteta langzüang:**
 a. **Agüja aliba pongtem ya lirumedema yangluang:**
 Tulus kaji tsungrem nungi anguba maongka tulu lir. Alima nungbo parnokji nubor asoshi tanapupa jenjang akitba tsüngrem ama lir. Tulus tim awashi meteta jembiteter ji tia taka. Kechiaser parnokki tulus maongka angutsü. Tulus ten tabeto jembibaji yimya tajung. Tenükmerema, tashiyem amshia masü. Kulakkubonga masü, tangar kar aija masü, saka timi jimbishinütsu metettsüla.
Mesüra 4
 b. Na Akümla/Akümba kibong nung tambusang/tantsüla nenu tanutsüla/iba ita nung küm ter ajunger. Tasoba benjong amungtsü adianu aser kiyonger jaokba shiti ka zülüang.

SHILEM – C (Orrlem)

4. **Itemi langzüang:** 12x1=12
 a. Nüngja teratet shiang.
 b. Ne _____ nisung ka noktaka lir. (*Pular ojang enokang*)
 c. Limalar wadang ajaki meranga inyakdagi. (*Koba mapanglem*)
 d. Tesangwara. (*Rasem, ojangra aser Ralok sadanga sayuang*)
 e. Pai kechi ashir junga mangateter. (*Koba oren nung aden*)
 f. Angu/ango ojangji amshia oren kaka yangluang.
 g. Pai telok nung koma jembitet asenoki ashitsü makok. (*Koba oren/oyim nung aden?*)
 h. Merenla ajemalu tetsür ka. (*Koba ojang pukhumna*)
 i. Mapanglem telemsa kwi lir?

- j. 'Merang' (*Iba ojangra nung Rasem asu Ralok inokang*)
- k. Oyim/oren telemsa tenüngtem shiang.
- l. Mamatsü/mamatzü (*Tetezü balala adoka oren kaka yangluang*)

5. **Itemi Ao oshi nung meyipang:** 3
 The ceremonial dresses of both men and women in Nagaland are quite splendid. The men carry colourful spears decorated with dyed goat hair, their headgear is made of bamboo woven with flowers and feathers, there are arm bands made of elephant tusks and necklaces of wild boar teeth.

SHILEM – D (Kaket keno zülu)
Otsü

6. **Agüja aliba nungi ojang shitak shimteta langzuang:** 4x1=4
- a. Lijabai yarla aser tenu tena nem chipo ana agütsü ka temedaktsü ninang chipo aser ka _____.
 (i) tamang chipo (ii) tesangwa chipo
 (iii) mepet chipo (iv) mi chipo
 - b. 'Naga Club' ya _____ küm tenzük.
 (i) 1818 (ii) 1918
 (iii) 1928 (iv) 1947
 - c. Tsungremi tetsür yanglutsü asoshi tebur _____ nungiang agitet.
 (i) tekolakret (ii) tetsüngret
 (iii) tesaret (iv) taburet
 - d. Balaluyu nung tatembang o _____ agutsür.
 (i) tebu yimer (ii) yimdeni
 (iii) yimsüsür kati (iv) kidongi
7. Yimeri kechisa shia Lijaba magizük? 2
8. Mapa inyakdak awashi tamajung pezü shiang. 2
9. "Asenok taküm nung talenba ana lir."
 (i) Iba oren shibai shiba dang ashiba lir. 1
 (ii) Talenba anaji kechisa tatsü agi rasaa shiang? 2
10. a. Tetsüri maginüba tebur yimya tamajung ana shiang. Tawa tanü sapua atalokba tashiyim agi tetsür raksatsür ibala mapa tamajung inyakertemji koma azüoktsüla? 1+3=4

Mesüra

- b. Kechiba tokonglu ayimba ya rongsen lalushipongba den saku ta züngshir rajema züluang. (4)
11. a. “*Shikiraki, ibai asen tsürabur tetsütebou mapang kanga dang tangtibang süa amshiba ojang ka.*”
- (i) Shikiraki tetezü tatsü agi ratetjang. 2
- (ii) Akhi anogo tenla agütsüba yimya kar rasaa shiang. 3

Mesüra

- b. “*Keyir benjongji kanga asüngteta amungtsüla.*”
- (i) Keyir benjongji kechi? (1)
- (ii) Iba benjong nung rongsen lalushibongba koma melenshitsüla? (4)

Sangro

12. **Item tasüngdangbatem nungi shitak shimteta langzüang:** 2x1=2
- a. Kechi mapang ka nung takarsang kinungtsü asü?
- (i) aam ita (ii) am ita
- (iii) ami ita (iv) meyi mapang
- b. Kinü tanur dak menemba ronem dang _____ ta ajar.
- (i) nura ronem (ii) kinü sanem
- (iii) tesanem (iv) nurazüknem
13. “*Pa dakbo sempet balala lir.*”
- (i) Iba oren shibai shiba indang ashir? 1
- (ii) Kechi tensa ka nung agüja aliba oren ya jembi? 1
14. Putu anashi süia arudang Lungtrok otsüren koma melenshi rateta züluang. 2
15. a. Shibai shiba saakba ata liasü? Ano pai kechi asüngdangtsü indang jembi? 2+2=4

Mesüra

- b. ‘Par narong mesüktsü tetemsü.’ Shirnoki shirnok merenshitsü indang ashir? Kechiba ya jembitsüsa aküm rateta shiang. (1+3=4)
16. a. *Yimtabena süngküm nung,*
Anembong süngo alenlok,
Kodang kari jimi,
Metangshitsür melii aküm,
Melenshiogo, lungtrok otsü.
- (i) Iba oren koba sangro nungi shibai mejem. 1
- (ii) Anempong tetezü kechi 1
- (iii) Agüja aliba orentemji rasaa zuluang. 3

Mesüra

b. *Takarsangi hopta shia an ka,*

Tiar nem....shi lepsaa teti agütsü?

- | | | |
|-------|---|-----|
| (i) | Agüja aliba orentem koba sangro nungi agitet? | (1) |
| (ii) | Tiar nem kechiba an agütsü? | (2) |
| (iii) | Kechiba aser shiba nem shi agütsüba ashir? | (2) |

Yimdangjem

- | | | |
|-----|---|-------|
| 17. | Etiben aniseni arurji kechi yim nungi shibasa liasü? | 2 |
| 18. | <i>Na asüngdangi sübong ka anir arua lir.</i> | |
| | (i) Iba o shirnoki shiba dang ashi? | 1 |
| | (ii) Iba osang angashir jagi koma benshi. | 2 |
| 19. | a. <i>Süngrong dang ankongnawa anur amensang to.</i> | |
| | (i) Iba oren shibai shiba den jembiba oren lir? | 1+1=2 |
| | (ii) Iba aonungji kechi atalok rateta züluang. | 3 |

Mesüra

b. *Pai Etiben dang pa tsütenmung amungtsüji la dang alui oang ta ashi.*

- | | | |
|------|--|-----|
| (i) | ‘Pai’ ji shiba. | (1) |
| (ii) | Tsütenmung amungnü tatalokba otsü tatungi rasaa züluang. | (4) |

**2025
LOTHA**

Total Marks: 80

Time: 3 hours

General instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 20 questions divided into 4 sections A, B, C & D.*
- iii) *Attempt questions based on specific instructions for each part. Write the correct number in your answer sheet to indicate the option/s being attempted.*
- iv) *General and Internal choice have been provided in some questions.*

N.B: *Check that all pages of the question paper is complete as indicated on the top left side.*

CHIRO – A (Ekhaio)

1. Motsü shi khæ zesi oküpoe engao jiang janlana :

1. Otsük oso mmhon to ephyo shi ko licho topvü lo mmhontsowo osi ekümo ematha longshi tsotso ji. Shi jo otsi orang lona tsüphokata, ejü eli thanpo osonoki mmhom, zotoro mmhom jiang lona, elani opyonori mmhontsowo, ejüpomo tsaka phyoka jiang lona tajokata tssentsükata. Otsük oso lo ephyo erüv mpathaka na mekana nochonori na ekhyingthaka na otsi-orang mekana ejüeli elümoto li lia, vanlanyilan ntssomo tvü lo vana khyingroe loroe ekümo zümzüm to vanlia, limhae Roza mpa to tsoa vanlia, ematha nli osi vancho nnchüng .

2. Limha shi lo mozhü mono thüngoe ratssen mmhomden elani tsüktssen thüngche jiang mozhü mmhon mmhon elani nochonori tsseni zephen kikyonyo lantaro yanche shyuchi otsük oso mmhon evamo kyon jiang ji talüangi vanta vanra. Tokhatolia ovünghüing na nti na nno na otsük mmhona vana vamo jiang esüa jo ntssola. Ntio tssole yiphyo lona ha heto phyoe elio ji esüa ‘E nkathovü tanglanchio ji jo talüangi mmhomo ji lona mmhonka ta’.

3. Otsük oso lo nochonori shi jo ekyongo lo jo ete na ntangshon nlio ji yakchia chiyiala, to tsüktssen jiang yakchia engathethoka la. Nochonori ji na otsük oso lo tssolia vanlanyilan lo tssolia ezüp osi epüp hansi yiala, sülan sülan jo odon nlia na echü nungra hansi yiala.

4. Yiphyo motsünga heto ha lia, ‘Otsük mmhom ji jo eli’ shi lo ndongkae limhatsü Hoho soying lo okho chiro motsünga W.H.O. shina limhae kyon kvütata vancho sana topvü na nochonori nli na otsük mmhona vani noying ematha ekümo vantav lo kyokvü elüm tso kae elhi tssota rothaka, elani tssota yia vana. Heto elhilüpta yia evamo jiang lo ekyoerong pia liphongtsü osi liphongro topvü na otsük oso mmhona vantav lo lanka khosha lanchi nzanchia zeyata tssota yira vana.

Shiang yakchia ete pyimtsümotsüi jiang thüangi na jo enhünga echungren shi lo kyon vanta evamo shiang harishi elio to zecheta la.

Engoa shiang akvülo elamo ji ethüangi erana:

4x1=4

- (a) Ntangshon nlio ji yakchia ntio hansi yiala?
 (i) Ezüp osi epüp (ii) Ezüp osi eman
 (iii) Ezüp osi ematha (iv) Ezüp osi mense
- (b) Otsükoso mmhomo ji jo ntio lona tssentsükacho la? Shi lo njüo ji jo
 (i) Osonoki mmhom (ii) Zotoro mmhom
 (iii) Opyonori mmhom (iv) Khaphen mmhontsowo
- (c) L.H.S. shi yichak jo ntio la?
 (i) Limhatsü Hoho Soying (ii) Longsae Hoho Soying
 (iii) Lakhüti Hoho Soying (iv) Longidang HohoSoying
- (d) E nochonoria na mmhonkathokvü eyilao ochoang thüangi woala? (Shilo lhitssoyi ji jo)
 (i) Nochonori (ii) Eyilao
 (iii) Thüangi (iv) Woala
- (e) Kyon ekümo mmhontsowo ji jo ntio la? **1**
- (f) Otsük oso lo nochonori shi jo ekyongo jo ntio yakchia chiyiala? **1**
- (g) W.H.O. shi yichak jo ntio la? **1**
- (h) Otsük oso mmhomo ji jo ntio ntio lona tssentsükacho sana eni erana. **1**
- (i) 'Tsütsailan' to ephyo shi yichak esütao tvü pia. **1**
- (j) W.H.O. shi na ntio elhi tsoa rothoka? **1**

CHIRO – B (Eramo)

2. Oküpoe pi elio jiang lo na ni lümcho motsünga (1) yitsüng 150-200 na epemo erana:

- a. Yiphongran: Thangshi ji na kyon ji benrithokala
Mekana **6**
- b. Thyutasanta/jantasanta shi erana:
 Nina zhütüingshi nshüi ni kümhüngala. Nina nipo thüangi thangshi jiang lo ewov tsükona woe-wolana thyutasanta ji erana.

3. Oküpoe pi elio jiang lona ni lümcho motsünga erana:

- a. **Yiren pi elio shi khæ zesi elanchoe eranchoa (copy-editing):**
 Enhungaren shilo lo yithenkako shi jo ntsenran nzua yiphen lankvü opvü motsunga. Yithenkako shi yikchia ete na limhatsü yivon, ete liphong yivon osi ete nkonjan topvü lo ntio tsoa osü yia vancho sena hojiang ete kipüangi

hansi oyi khatala. Hoji tsükona yithen kako shi jo kyong nzontsü okho jiang ntsiran osi üntsijan pipphen opvü tsoto motsünga.

Mekana

4

b. Etsa kako yitsüing 50 harüma na erana:

Pinnacle School, Kohima na chopük choro lo nzyu ochümi yantso pita tsüingon ji khitav sala. Hoji tsükona kvürö, püngnoden elani ekhae nonghori to jiang thong tsoa etsa kako opvü opo thüing janthokvü tsükona yitsüing 50 harüma erana.

CHIRO – C (Lothayi Nsanlan)

4. Shiang janlana:

a. Yiren jo ntio la? Yiren olan olan jiang lona eni erana. 2

b. Yitsünga tae na janlana:

1+1=2

- (i) Pyimtsümotsüi mmhatathi na janhyao.
- (ii) Odongi tsothia chungoe.

c. Yichak esütao tvü pia:

1+1=2

- (i) Shilo
- (ii) Nkolo

5. Etssyuchi epio ji ephan janlana:

- a. Onte na shilo rov alo? (*Yiren shi yintsa kümtoka*) 1
- b. Ombo oyilov jo tsüktssen thüing yanpiyanthan tsocho. (*Shilo mhachungyi ji sekata*) 1
- c. Ni ekümrümo jiang _____ zeta. (*Tongphiyioyi/Tepfüyi khi pyingthoka*) 1
- d. Hayio! Ni ha rocho ke. (*Yiren shi jo ntio nchümcho phyochokchicho sana erana*) 1
- e. Onte na myuetso tso lo nte tsacho. (*Ovon tongphia*) 1
- f. Yitsüing 'eküm' shi lhitssoyi (verb) kümthoka. 1

6. Yiren shiang Lothayi na khophia:

3

The ceremonial dresses of both men and women in Nagaland are quite splendid. The men carry colourful spears decorated with dyed goat hair, their headgear is made of bamboo woven with flowers and feathers, there are arm bands made of elephant tusks and necklaces of wild boar teeth.

CHIRO – D (Motsüran Ekha)

7. **Engao shiang akvü lona elamo ji ethüngi erana:** **4x1=4**
- a. 1881 lo okhati Ronal Ross na Indian _____ thüingwoe elhi etssov etümtok ji hungcho.
 (i) Rasantsü okhen (ii) Rasantsü mozhümono
 (iii) Kisü nsüngrüi (iv) Orhong eha
- b. Ntio nzyu lo Prussia na Denmark thüngi ori tssokacho la?
 (i) 1854 (ii) 1864
 (iii) 1874 (iv) 1884
- c. ‘Nina ayio amoatsi to a hunga’ shi jo ocho na phycho la?
 (i) Boaz (ii) Naomi
 (iii) Ruth (iv) Malilo
- d. ‘Lomyak Tssüng’to ndana wontssatssüng oha kvüta woe olongo na ozhü na erüki hansi oyi loroe jiang kipüngi pontüng ethüm-ethüm na chitae ntongi vayia la?
 (i) 5 (ii) 6
 (iii) 7 (iv) 8
8. Ross na ntio yanchecho la? Osi ombo na jikanika 20 ji jo ntio tsüngon to tsayicho la? **2**
9. Nungkha na mmhorü kvüri ji woni hansi phonglan motsünga jani hoji lona zechile ntio yan hungchicho la? **2**
10. Ronald Ross opo tsükona motsü tara erana. **3**
11. **a.** Nkolo reni jo loroe jo kvüto sota rocho sana erana. **4**
Mekana
- b.** Orpha na pyonta eyen esüa ono ntsüppa thüing ono na Ruth thüngi kvülo ezocho la? Tole Ruth na kvüto janlancho la?
12. **a.** *Aühm, ana nzyu ethüm lo myak-longa man benrhümkhoka.*
 (i) Yiren shi jo ocho phycho la? **1**
 (ii) Nungkha na Tssirolo lomyako ji erana. **4**
Mekana
- b.** *Ana nte nkichoyio, nte tssolanphyolan kvüi ha njüna müngsipheni a hansi ewov a chokatala.*
 (i) Yiren shi jo ocho thüngi ezocho la? **(1)**

- (ii) Henry Dunanat na kvütolyui donphen emyumvü ji yanchecho sana erana. (4)

Chungiyi

13. **Engao shiang akvülo elamo ji ethüangi janlana:** **2x1=2**
 a. Jülamö khyingroe jo tssikya phonglan mhana oyi ntio yan tssochö la?
 (i) Phiro (ii) Koroyan
 (iii) Tiylongchüm (iv) Wokhayan
 b. 'Mongsangosü' to epyo ji yichak jo.
 (i) Ojü mmhom (ii) Otsi mmhom
 (iii) Oyuhan mmhom (iv) Osü mmhom
14. Chungiyi 'Janchoe Nzoe' ji lo ocho na opo osi opvü jancho nzochö la? Ntio tsükona jancho nzoe ji thüng ralo ti wo to ezochö la? **1+1=2**
15. Chungiyi 'Randan Teriv' ji lo khennsoe ji na ombo eküm ji ntio , ntio khi elani ochoang yakchia ehüngpvüi mmhom epiv tsükona phyochö la? **2**
16. **a.** *Yanaloyi Menkitong chenthe lo loroe yio,
 Kio opo na tsoyo to ni tssothok le,
 Kio opvü na tsoyo to ni tssothok le,
 Elüm tosi enga la moa la to.
 Shi mmhona eroroa erana.*
Mekana **4**
b. *Ni rünyucho ehungo zothev kila,
 Yamo hanpong khfüa to e randania,
 Sükhying ratsen mmhayile to e randania,
 Therolani yanthanshanri mmhayile to e randania.
 Shi mmhona eroroa erana.*
17. **a.** Jipo lan shiang tssothimori osi onte na ntio meta fükäe khichö sana erana.
 (i) Tsüngomo (ii) Chüm
 (iii) Jungli (iv) Kyong
Mekana **5**
b. Orae odong motsünga omboti ezao ji tona odong rentarenta na ezao ji to echümpota ji kyon ekümo lo rakata eroroa erana.

Nchümntan Motsü

18. Opvüopo jiang na ngaro jiang kvüto püngnota rochö la? **2**

19. Zikao nongho eküm ji hungri na erana. 3
20. a. *Kvüthüng yantsüi lantsae sanphia wotacho sana choni etsoe oson oki nliv eryuemhen lo oyam kihi esanta vanrao jiang zesi Zikao nungra jiang chiyilanchö.*
- (i) Zikao nungra thüng ombo shom jiang na kvüto ezotacho la? 1
 - (ii) Zikao na jo oshom jiang thüangi kvüto janlancho la? 1
 - (iii) Zikao shom jiang jo kvütvü kyonden la? 1
 - (iv) Zikao na opo mona yisi sülo jo kvüto nchümcho sana erana. 2
- Mekana**
- b. *Tsütsailan teriv tae mpato tssolia yantso to ephyo jijo tsentsü sayia.*
- (i) Merangta ji ntio ekhav picho la? (1)
 - (ii) Ntio yantso hungcho la? (1)
 - (iii) Yantso ji ochona picho la? (1)
 - (iv) Motsü ji hüngri na erana. (2)

Full marks: 80

Time: 3 hours

i) Approximately 15 minutes is allotted to read the question paper and revise the answers.

ii) *The question paper consists of 28 questions.*

iii) Marks are indicated against each question.

Answer to questions carrying 2 marks should not exceed 50 words.

Answer to questions carrying 4 marks should not exceed 100 words.

Answer to questions carrying 6 marks should not exceed 200 words.

Answer to questions carrying 8 marks should not exceed 300 words.

N.B: Check that all pages of the question paper are complete as indicated on the top left side.

Choose the correct answer from the given alternative: **10x1=10**

1. Which of the following statement about Mahajapadas are correct? 1
- I. Mahajapadas were Magadha, Koshala, Gandhara and Avanti only
II. Most Mahajapadas were ruled by kings
III. Some, known as Ganas or Sanghas, were oligarchies ruled under rajas
IV. Each Mahajapadas had a capital city, which was often fortified
- (a) I, II & IV (b) II, III & IV
(c) I, III & IV (d) I, II & IV
2. The following questions consist of two statements – Assertion (A) and Reason (R) 1
- A: At the apex of whole administration was the Mauryan Emperor who was the fountain – head of all authority.
R: His powers were unlimited. He was the law giver, the supreme judge, the commander of the army and the chief executive.
- Choose the appropriate answer from the option given below;
- (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
3. Identify the incorrect statement regarding Mahabharata. 1
- (a) It is been written in the Mahabharata at many places that it is itihās.
(b) It has been mentioned in Adāiparṃa that the annals of the Bharata dynasty are recorded in the work.
(c) Sage Ved Vyas wrote the itihās after the war was over.
(d) The archaeological excavations have discovered the submerged city of Dwarka in the state of Gujarat.

4. Match the following: 1

Column A	Column B
a. Polaj b. Parati c. Chachar d. Banjar	i. Occasionally left fallow ii. Out of cultivation for more than five years iii. Land always being cultivated iv. Remain fallow for about four years

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

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

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

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

5. The following questions consist of two statements – Assertion (A) and Reason (R) 1
- A: Bhakti-Sufi thinkers used various languages to express their ideas.
R: Bhakti-Sufi thinkers emphasized love for humanity and inner purity.
Choose the appropriate answer from the option given below;
- (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

6. Match the following: 1

Column A	Column B
a. Ravidas b. Kabir c. Dhanna d. Saina	i. Jat ii. Barber iii. Cobbler iv. Weaver

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

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

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

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

7. The British favoured the Santhals more than the Paharias because 1
- (a) Paharias were a nomadic group
(b) Paharias refused to practice shifting agriculture
(c) Santhals agreed to collect Mahua from the forests
(d) Santhals were ready to clear forests and plough which the Paharias refused
8. Consider the following statements and choose the correct option. 1
- (A) The greased cartridges were to be used in the new Enfield Rifles
(B) The British Officers tried to explain to the sepoys that cartridges were not greased. It was a rumour.
- (a) Only (A) is correct (b) Only (B) is correct
(c) Both (A) & (B) are correct (d) Both (A) & (B) are wrong
9. The worth mentioning features of the Salt March was 1
- (a) Due to it, Mahatma Gandhi became famous

- (b) It was the first national movement where women participated equally
 (c) This march made the British realize that their colonial rule would soon come to an end.
 (d) All the above
10. The constitution came into being on 1
 (a) January 26 1950 (b) January 26 1949
 (c) January 26 1951 (d) January 26 1940
11. Ashoka's inscriptions mention five major political centres in the Empire. Give the names of any four political centres of the Mauryas. 2
12. 'There are limits to what epigraphy can reveal'. Justify this statement. 2
13. Highlight the conditions of Hampi Bazaar today. 2
14. Who were the Alvars and the Nayanars? 2
15. Mention any two great principles of Ramananda. 2
16. 'In order to protect the interest of the cultivators, the British Government passed laws from time to time'. Mention any two laws passed by the British Government. 2
17. Can the Revolt of 1857 be considered as a Sepoy Mutiny? Cite any two examples in support of your views. 2
18. The British land revenue policy further gave a set back to the position and authority of the Taluqdars. Justify the statement. 2
19. Mahabharata is a dynamic text. Justify. 4
20. Give any four features of the land settlement and revenue collection introduced by Lord Cornwallis in Bihar, Bengal and Orissa. 4
21. What were the schemes of communal award? 4
22. Read the source below and answer the questions that follows:

Village Panchayats

Every Panchayat was headed by a headman known as Muqaddam or Mandal. Headman held office as long as he enjoyed the confidence of the village elders. In case, he lost the confidence of the elders, he was dismissed by them. The income of the panchayat was the contributions made by individuals to a common financial pool. These funds were used for entertaining revenue officials and community welfare activities. Often these funds were also used for construction purpose. An important function of the panchayat was to ensure

that the caste boundaries among the various communities living in the village were not disturbed. They also performed judicial functions like levy fines and inflicts punishment.

Source: Raghunath: Themes in Indian History

- a. What happened when Mandal lost the confidence of the village elders? (1)
- b. How did the panchayat receive financial assistance? (1)
- c. Based on the passage, identify the important functions of the panchayats in the village administration. (2)

23. Read the source below and answer the questions that follow:

Colin Mackenzie- Surveyor

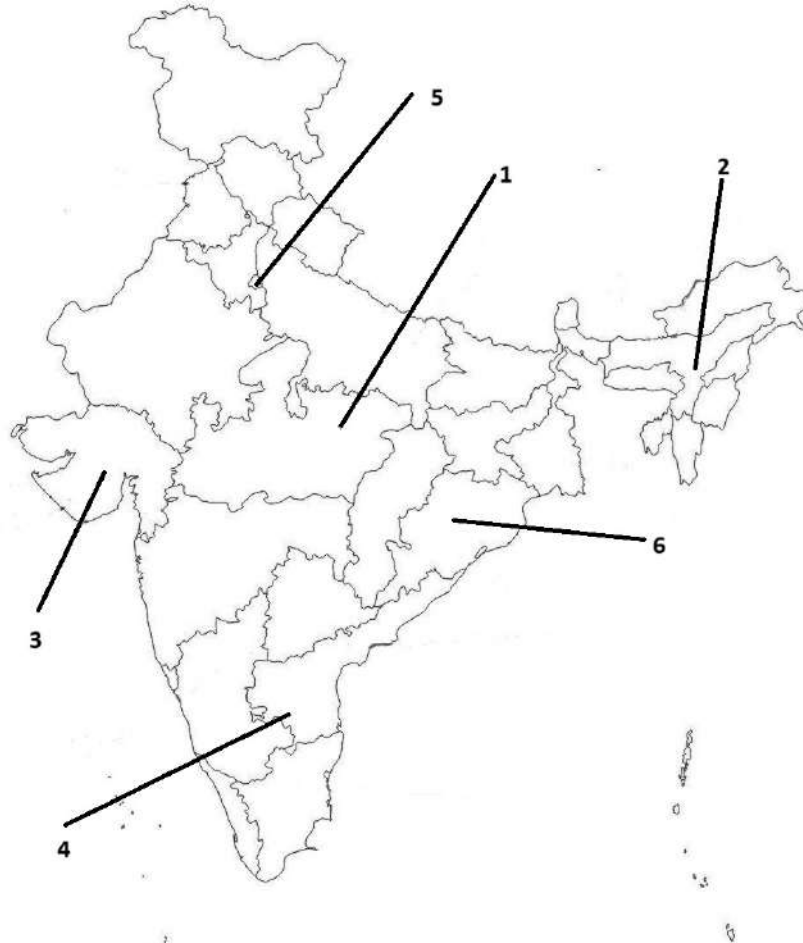
In 1815, Colin Mackenzie was appointed the first Surveyor General of India. He embarked on collecting local histories and surveying historic sites in order to better understand India's past and make governance of the colony easier. He says that "it struggled long under the miseries of bad management ... before the south came under the influence of the British Government". By studying Vijayanagara, Mackenzie believed that the East India Company could gain "much useful information on many of these institutions, laws and customs whose influence still prevails among the various tribes of native forming the general mass of the population to this day".

Source: Raghunath: Themes in Indian History

- a. According to Colin Mackenzie, how was the study of the Vijayanagara useful to the East India Company? (2)
 - b. How did Mackenzie try to rediscover the Vijayanagara Empire? (2)
24. a. "Many reconstruction of the Harappan religion have been done on the basis of influence". Confirm the statement with examples. **6**
- Or**
- b. How do the archaeologists try to reconstruct the past? How do the archaeologists trace social economic difference? (4+2=6)
25. a. Describe the Constituent Assembly of India. **6**
- Or**
- b. What were the ideals expressed in the Objective Revolution?
26. a. Write about the religious practices of the Early Vedic and Later vedic period. **4+4=8**
- Or**
- b. Mention any two differences between the Hinayana and the Mahayana sect of Buddhism. What were the influences of Buddhism in Indian society? (2+6=8)

27. a. Who was Albiruni? What did he write about the condition of India?
Or 1+7=8
b. Who was Ibn Battuta? What did he write about the condition of India?

28. On the map given below, 6 (six) areas have been numbered as 1, 2, 3, 4, 5 and 6. Name these numbered places which represent the following: 6x1=6



- (a) Lothal (Harappa)
- (b) Sanchi Stupa
- (c) Kalinga War
- (d) Gandhi Irwin Pact
- (e) Origin of Bhakti Movement
- (f) INC session of 1926

Question for visually impaired students

- (a) Where is Lothal located?
- (b) Where is Sanchi Stupa located?
- (c) Where was Kalinga War fought?
- (d) Where was Gandhi Irwin pact signed?
- (e) Name the place where Bhakti Movement originated?
- (f) Where was the INC session of 1926 held?

Full marks: 70

Time: 3 hours

- i) *Approximatley 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 25 questions. All questions are compulsory.*
- iii) *Answer to questions carrying 2 marks should not exceed 50 words.*
- iv) *Answer to questions carrying 4 marks should not exceed 100 words.*
- v) *Answer to questions carrying 6 marks should not exceed 200 words.*
- vi) *Answer to questions carrying 8 marks should not exceed 300 words.*
- vii) *Internal choice has been provided in 6 marks and 8 marks questions.*

Choose the correct answer from the given alternatives in questions 1 to 10.

1. Forming a Partnership Deed is _____. 1
 - a) Mandatory
 - b) Mandatory in writing
 - c) Non-Mandatory
 - d) None of the above.
2. Realisation Account is a _____. 1
 - a) Nominal A/C
 - b) Real A/C
 - c) Personal A/C
 - d) Real A/C as well as Personal A/C.
3. The portion of the capital which can be called up only on the winding up of the company is called _____. 1
 - a) Authorised Capital
 - b) Capital Reserve
 - c) Unpaid Capital
 - d) Reserve Capital.
4. Discount on issue of debentures is in the nature of _____. 1
 - a) Revenue loss
 - b) Capital loss
 - c) Deferred revenue expenditure
 - d) None of the above.
5. Public deposits appear in a company's Balance Sheet under _____. 1
 - a) Intangible assets
 - b) Current liabilities
 - c) Long term provisions
 - d) Long term borrowings.
6. Securities premium appears in the Company's Balance Sheet under which sub-head _____. 1
 - a) Share capital
 - b) Long term provision
 - c) Short term borrowings
 - d) Reserve and surplus.

7. Ideal quick ratio is _____. 1
 a) 1:1 b) 1:2
 c) 1:3 d) 2:1.
8. _____ helps to assess the short term solvency of a business. 1
 a) Turnover ratio b) Solvency ratio
 c) Liquidity ratio d) Profitability ratio.
9. Cash Flow Statement is prepared for financial planning of _____. 1
 a) Long range b) Medium range
 c) Short range d) Very long range.
10. Under which Accounting Standard (AS) Cash Flow Statement is prepared? 1
 a) AS-4 (Revised) b) AS-1(Revised)
 c) AS-5 (Revised) d) AS-3(Revised).
11. A, B and C are partners sharing profits in the ratio of 3:2:1. They admit 'D' for $\frac{1}{4}$ th share. It is agreed that 'B' would retain his original share. Calculate new profit sharing ratio. 2
12. Write any two nature of limited liability of partnership. 2
13. A, B and C are partners in a firm whose books are closed on 31st March each year. A died on 30th June 2022 and according to the agreement the share of profits of deceased partner upto the date of death is to be calculated on the basis of the average profits for the last five years. The net profits for the last 5 years have been: 2018 ₹14,000; 2019 ₹ 18,000, 2020 ₹16,000; 2021 ₹10,000(loss) and 2022 ₹16,000. Calculate A's share of the profits upto the date of death. 2
14. Write any two difference between equity shares and preference shares. 2
15. X Limited purchased assets worth ₹ 2,20,000 and also took over the liabilities (creditors) of ₹ 40,000 of Y Limited for a purchase consideration of ₹ 1,92,000. X Limited paid the purchase consideration by issuing 12% debentures of ₹ 100 each at a premium of 20%.
 Pass necessary journal entries in the books of X Limited. 2
16. Why would an investor prefer to invest partly in shares and partly in debentures of a company? 2
17. List any two objectives of preparing the financial statements. 2

18. A and B are partners in a firm. Their capital accounts showed the balance on April 1, 2022 as ₹4,00,000 and ₹ 3,00,000 respectively. On August 1, 2022 they introduced further capitals of ₹50,000 and ₹40,000 respectively. B withdrew ₹15,000 from his capital on 1st March 2023. Interest is allowed at 6% per annum on the capitals. Compute interest on capitals for the year ending 31st March 2023. 4
19. Differentiate between sacrificing ratio and gaining ratio on any four basis of differences. 4
20. Glaxo Limited intends to come out with public issue of 50,000 equity shares of ₹ 10 each at a premium of ₹ 10 per share. The company has the following options for the issue of its equity shares:
 i) Issue price is payable ₹ 10 on application and ₹ 10 on allotment;
 ii) Issue price is payable ₹ 4 on application ; ₹ 10 on allotment and balance on first and final call.
 Questions:
 a) Is it possible for the company to accept any of the above options? Can the company opt for calling the entire ₹ 20 on application itself? 2
 b) If option ii) is adopted by the company, determine the amount that will be credited to share Capital Account from Share Allotment Account and why? 2
21. a. Alex Limited was registered with an authorised Capital of ₹ 60,00,000 divided into 60,000 equity shares of ₹ 100 each . Company issued 25,000 equity shares at a premium of ₹20 per share, payable as follows: ₹ 30 on application; ₹45 on allotment (including premium); ₹ 20 on 1st call and ₹25 on Second and Final call. All shares were subscribed and all the money was duly received. Share issue expenses amounted to ₹40,000 which were fully written off against securities premium. Pass necessary journal entries. 6
- Or**
- b. Explain any six differences between reserve capital and capital reserve.
22. a. X Limited issued 2,000 shares, 15% debentures of ₹100 each at par, payable as follows: ₹25 on application; ₹25 on allotment and ₹50 on 1st call and final call. Applications were received for 3,000 debentures. Applications for 1,600 debentures were accepted in full. Applications for 600 debentures were allotted 400 debentures and the rest were rejected. All moneys due were received except final call on 100 debentures. Pass necessary journal entries. 6
- Or**
- b. Z Limited purchased machinery from K Limited and paid K Limited as follows:
 i) By issuing 5,000 equity shares of ₹10 each at a premium of 30%.
 ii) By issuing 1000, 8% debentures of ₹ 100 each at a discount of 10%.
 iii) Balance by giving a promissory note of ₹48,000 payable after two months.
 Pass necessary journal entries for the purchase of Machinery and payment to K Limited in the books of Z Limited.

23. a. From the following particulars obtained from the books of Alpha Limited. Prepare a Comparative Statement of Profit & Loss :

Particulars	Note No.	2023 (₹)	2022 (₹)
Revenue from operations		50,00,000	40,00,000
Purchases of stock in trade		40,00,000	30,00,000
Changes in inventory		10,00,000	8,00,000
Other expenses		5,00,000	4,00,000
Other incomes		2,50,000	2,00,000

Or

6

- b. Calculate:

- i) Gross Profit Ratio ii) Operating Ratio iii) Operating Profit Ratio
iv) Inventory Turnover Ratio from the following informations:

Particulars	(₹)
Purchases	1830000
Direct expenses	410000
Opening Inventory	3,60,000
Closing Inventory	4,40,000
Operating expenses	5% of sales
Revenue from operations	3000000
Current Assets (including inventory)	7,00,000
Current Liabilities	2,00,000

- 24.a. X, Y and Z were partners sharing profits in the ratio of 3:2:1, as at 31st March 2022, their Balance Sheet stood as under:

Balance Sheet of X,Y and Z as at 31st March 2022

Liabilities	₹	Assets	₹
Sundry Creditors	44,000	Cash at Bank	22,000
Reserve	90,000	Stock	1,20,000
Capitals		Debtors	64,000
X - 2,00,000		Investments	2,50,000
Y - 1,50,000		Fixed Assets	1,28,000
Z- <u>1,00,000</u>	4,50,000		
	<u>5,84,000</u>		<u>5,84,000</u>

Y died on 31st July 2022. The Partnership Deed provides that the executors of the deceased partner are entitled to:

- i) The capital is to be credited to his Account at the time of his death.
ii) His share of reserves

- iii) His share of profits on the date of death based on the average profits of the last three completed years, less 10% and
 iv) Goodwill according to his proportion of the total profits for the three preceeding years, which were ₹ 80,000; ₹ 1,30,000 and ₹ 1,50,000 respectively.

The investments were sold at par and Y's executor's were paid off.
 Prepare Partner's Capital Accounts, Y's Executor's Account, and Balance Sheet of the surviving partners X and Z.

Or

8

- b. The following is the Balance Sheet of A and B as at 31st March 2023. The profit sharing ratios of the partners are 3:2.

Balance Sheet of A, B and C as at 31st March 2023

Liabilities	₹	Assets	₹
Creditors	97,500	Land & Buildings	30,000
A's Capital 85,000		Motor vehicles	18,300
B's Capital <u>63,000</u>	1,48,000	Stock	72,800
		Debtors 1,13,200	
		Less: Provision } for bad debts } <u>2,450</u>	1,10,750
		Cash at Bank	13,650
	<u>2,45,500</u>		<u>2,45,500</u>

The partners decided to dissolve the firm on and from the date of the balance sheet. Motor vehicles and stock were sold for cash at ₹16,950 and ₹77,600 respectively and all debtors were realised in full. Land and building were sold at ₹43,500. Creditors were paid off subject to discount of ₹1,700. Expenses of realisation were ₹1,250.

Prepare Realisation Account, Bank Account and Partners Capital Accounts to close the books of the firm as a result of its dissolution.

25. a. Following are the Balance Sheets of Sewak Limited as at 31st March 2022 and 2021.

Balance Sheets of Sewak Limited as at 31.03.2022 & 2021

Particulars	Note No.	31.3.2022 (₹)	31.3.2021 (₹)
I. Equity & Liabilities			
1. Shareholders' Funds:			
a) Share Capital		7,00,000	4,00,000
b) Reserves & Surplus	1	(-3,35,000)	(-50,000)
2. Non - Current Liabilities:			
a) Long term borrowings	2	4,00,000	2,00,000
3. Current Liabilities:			
a) Short term borrowings	3	22,000	30,000
b) Trade payables		1,28,000	80,000
c) Other current liabilities	4	20,000	10,000
Total		9,35,000	6,70,000
II. Assets			
1. Non - current Assets:			
a) Property, Plant & Equipment & Intangible Assets:			
i) Property, Plant & Equipment			
b) Non- current Investments		5,00,000	3,00,000
2. Current Assets:			
a) Inventories		1,40,000	2,00,000
b) Trade Receivables		1,00,000	50,000
c) Cash and cash equivalents		1,70,000	1,00,000
		25,000	20,000
Total		9,35,000	6,70,000

Notes:

	31.03.2022 ₹	31.03.2021 ₹
1. Reserve & Surplus		
Profit & Loss balance	<u>3,35,000</u>	<u>50,000</u>
2. Long term borrowings:		
9% Debentures	<u>4,00,000</u>	<u>2,00,000</u>
3. Short term borrowings		
Cash credit	<u>22,000</u>	<u>30,000</u>
4. Other Current Liabilities:		
Outstanding Expenses	<u>20,000</u>	<u>10,000</u>

Additional Information:

- i) A piece of machinery costing ₹70,000 on which depreciation charged was ₹ 40,000 was sold for ₹ 30,000. During the year ₹1,40,000 depreciation was charged on machinery.
- ii) Share issue expenses of ₹15,000 were incurred and written off from the statement of Profit & Loss in 2021 & 2022.
- Prepare a Cash Flow Statement.

Or

- b. The Balance Sheets of A Limited as at 31st March, 2024 and 31st March, 2023:

Balance Sheets of A Limited as at 31st March 2024 & 2023

Particulars	Note No.	31.3.2024 (₹)	31.3.2023 (₹)
I. EQUITY & LIABILITIES			
1. Shareholders' Funds:			
a) Share Capital		60,000	50,000
b) Reserves & Surplus	1	41,000	46,000
2. Non-Current Liabilities:			
a) Long term borrowings		25,000	20,000
3. Current Liabilities:			
a) Trade payables		12,000	10,000
b) Short term provision	2	17,000	20,000
Total		1,55,000	1,46,000
II. ASSETS			
1. Non- current Assets:			
a) Property, Plant & Equipment & Intangible Assets:			
i) Property, Plant & Equipment (Machinery)		1,00,000	90,000
2. Current Assets:			
a) Inventories		24,000	20,000
b) Trade Receivables		26,000	32,000
c) Cash and cash equivalents		5,000	4,000
Total		1,55,000	1,46,000

Note:

	31.03.2024 ₹	31.03.2023 ₹
1. Reserve and Surplus		
General Reserve	8,000	5,000
Profit or Loss Balance	<u>33,000</u>	<u>41,000</u>
	<u>41,000</u>	<u>46,000</u>
2. Short term provision:		
Income Tax Provision	<u>17,000</u>	<u>20,000</u>

Additional Information:

- Depreciation written off on machine was ₹18,000.
- Interest paid on long term borrowings amounted to ₹ 3,000.
- Income tax of ₹15,000 has been paid.

Prepare a Cash Flow Statement.

2025
CHEMISTRY

Total marks : 70

Time : 3 hours

General instructions:

- i) Approximately 15 minutes is allotted to read the question paper and revise the answers.
- ii) The question paper consists of 34 questions. All questions are compulsory.
- iii) Marks are indicated against each question.
- iv) Internal choice has been provided in some questions.

N.B: Check that all pages of the question paper is complete as indicated on the top left side.

1. Which of the following pairs will not form an ideal solution? 1
(a) Benzene and Toluene (b) Ethanol and Acetone
(c) n- hexane and n-heptane (d) Bromoethane and Chloroethane.

2. The correct statement in a cell of zinc and copper is 1
(a) zinc acts as cathode and copper as anode
(b) zinc acts as anode and copper as cathode
(c) the standard reduction potential of zinc is more than that of copper
(d) the flow of electrons is from copper to zinc.

3. Which one of the following is a pseudo first order reaction? 1
(a) Hydrogenation of ethene
(b) Hydrolysis of ethyl acetate in the presence of dilute acid
(c) Combination of H_2 and Br_2
(d) Decomposition of NH_2 on a platinum surface.

4. Which of the following transition metals does not show variable oxidation state? 1
(a) Ti (b) Cr (c) Cu (d) Sc.

5. Which of the following is a paramagnetic complex? 1
(a) $[Ni(H_2O)_6]^{2+}$ (b) $[Ni(CO)_4]$
(c) $[Zn(NH_3)_4]^{2+}$ (d) $[Co(NH_3)_6]$.

6. The position of $-Br$ in the compound in $CH_3-CH=CHC(Br)(CH_3)_2$ can be classified as 1
(a) allyl (b) aryl (c) vinyl (d) secondary

7. Salicylaldehyde can be prepared from phenol by 1
(a) Schotten-Baumann reaction (b) Kolbe's reaction
(b) Reimer-Tiemann reaction (d) Cannizzaro reaction.
8. Which of the following is not a characteristic of carbonyl compounds? 1
(a) They have a polarized C=O bond.
(b) They undergo nucleophilic addition reactions.
(c) They show geometric isomerism.
(d) They can be reduced to alcohol.
9. Benzene diazonium chloride on hydrolysis gives 1
(a) phenol (b) chlorobenzene (c) benzene (d) aniline
10. The only vitamin with metal atom in it is 1
(a) Vitamin A (b) Vitamin K (c) Vitamin B₁₂ (d) Vitamin E
11. What is ebullioscopic constant? 1
12. Why Fe is a transition metal but Hg is not a transition metal? 1
13. Write the IUPAC name of K₃[Al(C₂O₄)₃]. 1
14. Why are ethers relatively inert compounds? 1
15. Why do amines react as nucleophiles? 1
16. Complete the reaction: 1
 $\text{CH}_3\text{CH}_2\text{NH}_2 + \text{CHCl}_3 + 3\text{KOH}(\text{alc.}) \rightarrow ?$
17. 2.82 g of glucose (C₆H₁₂O₆) are dissolved in 30 g of water. Calculate the mole fraction of glucose and water. 2
18. The conversion of molecules X to Y follows second order kinetics. If concentration of X is increased to three times, how will it affect the rate of formation of Y? 2
19. a. Which one of the following La(OH)₃ and Lu(OH)₃ is more basic and why? 2
Or
b. Which is a stronger reducing agent Cr²⁺ or Fe²⁺ and why?
20. Write the equation for the preparation of propan-2-ol from Grignard reagent. 2

21. I. Define Swarts reactions.
 II. Write the IUPAC name of the compound $\text{ClCH}_2\text{C}\equiv\text{CCH}_2\text{Br}$. 2
22. a. Differentiate between amylose and amylopectin.
Or 2
 b. Why amino acid behaves like salts in aqueous solution?
23. a. A solution contains 0.896 g of K_2SO_4 in 500ml solution. Its osmotic pressure is found to be 0.690 atm at 27°C . Calculate the value of Van't-Hoff factor. ($R = 0.082\text{atm mol}^{-1}\text{K}^{-1}$).
Or 3
 b. A 5% solution (by mass) of cane sugar in water has freezing point of 271K. Calculate the freezing point of a 5% glucose in water, if the freezing point of pure water is 273.15K. [Given $K_f = 1.86\text{K Kg mol}^{-1}$].
24. Represent the galvanic cell in which the reaction takes place- 3
 $\text{Zn (s)} + 2 \text{Ag}^+ (\text{aq}) \rightarrow \text{Zn}^{2+} (\text{aq}) + 2 \text{Ag (s)}$.
 i) Which of the electrode is negatively charged?
 ii) The carrier of the current in the cell.
 iii) Write the reaction at each electrode.
25. a. If time taken for half of the first order reaction to complete is t_1 , whereas that for $\frac{3}{4}$ th of the reaction to complete is t_2 . How are t_1 and t_2 related to each other. ($\log 4 = 0.60$)
Or 3
 b. The rate of a particular reaction triples when temperature changes from 50°C to 100°C . Calculate the activation energy of the reaction. [$\log 3 = 0.47$, $R = 8.314 \text{ JK}^{-1}\text{mol}^{-1}$].
26. I. What are heteroleptic complexes? Give example.
 II. On the basis of crystal field theory, write the electronic configuration of d^5 ion for high spin complex.
 III. Draw the geometrical isomers of $[\text{Co}(\text{NH}_3)\text{Cl}(\text{en})_2]^{2+}$. 3
27. I. Show the preparation of 1-iodobutane from but-1-ene.
 II. Write the SN_2 mechanism for the reaction of chlorobutane to butanol. 3
28. a. Explain Kolbe's reaction with the chemical equation involved in it.
Or 3
 b. What happens when-
 i) anisole reacts with HI?
 ii) ethanol reacts with CH_3COCl /pyridine?
 iii) phenol is oxidized with $\text{Na}_2\text{Cr}_2\text{O}_7/\text{H}^+$?

29. Complete the following reaction: 3
- i) $\text{CH}_3\text{MgCl} + \text{CO}_2 \xrightarrow[\text{H}_3\text{O}^+]{\text{ether}} ?$
- ii) $2 \text{CH}_3\text{-CHO} \xrightarrow[\Delta]{\text{dil. NaOH}} ?$
- iv) $\text{CH}_3\text{-CH=CH-COCl} \xrightarrow[\text{Pd - BaSO}_4]{\text{H}_2} ?$
30. (i) Name the reaction when benzene diazonium chloride is treated with cuprous chloride.
- (ii) Why are aryl diazonium ion more stable than alkyl diazonium ion? 3
31. (i) What is isoelectric point?
- (ii) What is the effect of denaturation on the structure of proteins? 3
32. a. (i) State Kohlrausch law of independent migration of ions. Write one application.
- (ii) The conductivity of $0.001028 \text{ mol L}^{-1}$ acetic acid is $4.95 \times 10^{-5} \text{ Scm}^{-1}$. Calculate its dissociation constant if Λ°_m for acetic acid is $390.5 \text{ Scm}^2\text{mol}^{-1}$.
- Or** 5
- b. (i) Write the oxidation and reduction reaction for corrosion of iron in atmosphere.
- (ii) Calculate how long it will take to deposit 1 g of chromium when a current of 1.25A, flows through a solution of chromium III sulphate. (Molar mass of Cr = 52, F = 96500C).
33. Explain the following with reason:- 5
- i) Transition metals and their compounds show catalytic activities.
- ii) Actinoid contraction is greater from element to element than lanthanoid contraction.
- iii) Sc^{3+} is colourless whereas Ti^{3+} is coloured in an aqueous solution.
34. a. (i) Convert benzene to acetophenone.
- (ii) Write the chemical reaction of Tollen's reagent with propanone and propanal.
- (iii) Write the reaction involved in Wolf-Kishner reduction.
- Or** 5
- b. (i) Show the formation of ketal from acetone.
- (ii) Why are the boiling point of carboxylic acids higher than the corresponding alcohol?
- (iii) Arrange the following compounds in the increasing order of their acidic strength: $\text{C/CH}_2\text{COOH}$, $\text{CH}_2\text{C/CH}_2\text{COOH}$ and FCH_2COOH .

2025
SOCIOLOGY

Full marks : 80

Time : 3 hours

General instructions:

- i. Approximately 15 minutes is allotted to read the question paper and revise the answers.
- ii. The question paper consists of 28 questions.
- iii. Marks are indicated against each question.
- iv. Answers to questions carrying 1 mark should not exceed one sentence.
- v. Answers to questions carrying 2 marks should not exceed 50 words.
- vi. Answers to question carrying 4 marks should not exceed 100 words.
- vii. Answers to questions carrying 6 marks should not exceed 200 words.
- viii. Answers to questions carrying 8 marks should not exceed 300 words

N.B: Check that all pages of the question paper are complete as indicated on the top left side.

Choose the correct answer from the given alternatives from questions 1 to 10.

1. Several factors has promoted the unity of India despite its vast diversity, which of the following is not one of them? 1
(a) geographical (b) political (c) technological (d) cultural
2. According to B.S. Guha, which racial race constitutes the bulk of the Indian population? 1
(a) Nordics (b) Mediterraneans (c) Brachycephals (d) Proto-Australoids
3. The systematic study of people and its related aspect is called: 1
(a) structures (b) population (c) demography (d) composition
4. The National Population Policy was revised in 2000. What is its long term aim? 1
(a) To provide basic reproductive and child care service
(b) To raise the age of marriage
(c) To achieve stable population
(d) To promote the small family norm
5. Which form of marriage allows a man to live with a woman at her parents' house before their marriage to see if they adjust to each other? 1
(a) marriage by probation (b) marriage by negotiation
(c) marriage by service (d) marriage by trail
6. "When we use the term kinship we are referring to people who are related by consanguinity or affinity". Whose words were these? 1
(a) Irawati Karve (b) D.M Majumdar (c) Duncan Mitchell (d) M.N Srinivas
7. Liberalisation is popularised by which of the following slogan? 1
(a) "least state, better state" (b) "better state, least state"
(c) "better state, less state" (d) "less state, better state"
8. The term 'panch' is ordinarily used for a group of people who takes decisions on collective affairs of the village. What number does the word 'Panch' denote? 1
(a) 25 (b) 15 (c) 35 (d) 05

9. Sociological Bulletin is a bi- annual journal publication of _____ 1
 (a) Caste and Race in India (b) Modernisation in India 1977
 (c) Indian Sociological Society (d) Stratification and change in India 1977
10. Which literature is not used in the study of Indian affairs or Indology? 1
 (a) Persian (b) Arabic (c) Mesopotamian (d) Sanskrit
11. Give two criteria used by the Indian Census authorities to designate a town as a census town. 2
12. Why is Prajaptya Marriage an approved and acceptable marriage in a Hindu society? 2
13. What characteristics make a group of individuals classified as minorities? 2
14. Mention two measures taken by the Government of India for the Scheduled Tribes in regard to education. 2
15. What is the one most significant value that Westernisation has created in the opinion of Srinivas and what does it mean? 2
16. By which year was the Panchayat Act passed in all the States of India and which Amendment to the Constitution deals with Panchayati Raj systems? 2
17. Most criticisms directed at mass media are not directed against the instruments of mass media. What is it primarily directed at? 2
18. Identify some traditional channels of mass communication. 2
19. Describe any four features of urban community. 4
20. Read the passage given below and answer the questions that follow: 2+2=4

The joint family is the basic unit in Indian society. It is the ideal pattern and cultural norm of family life. For generations, Indians had an unexpected prevailing tradition of the joint Hindu family or undivided family. The joint family system in India has changed with the number of joint families decreasing and the nuclear families increasing. It is said that about 70% of households in India are nuclear families.

But in recent years, there has been a small shift in Indian society towards the revival of the joint family in some urban areas. Some notable reasons for the shift are; Economic reasons, Work from home and live with family trend, Caring for the elderly, To maintain cultural continuity. The re-emergence of the joint family is more situational and often temporary.

- (a) What are some reasons for the shift towards the joint family from the more popular nuclear family setting in recent times?
- (b) Identify one 'economic reason' that you believe has influenced the shift towards joint families.

21. Mention any four problems of the Scheduled Caste. 4
22. Write in brief the importance of media in bringing about social change. 4
23. Explain the four characteristics of social movements. 4
24. a. Discuss unity in diversity in India. 6
- Or**
- b. What is Casteism? Mention any four attempts made by Caste organisations to strengthen their identity. (2+4=6)
25. a. Explain the structure of Panchayati Raj institutions as recommended by Mehta Committee. 6
- Or**
- b. Write the meaning of 'land reforms' and identify the social consequences it has brought to the agrarian structure of the country. (2+4=6)
26. a. Elaborate Yogendra Singh's view on tradition and modernity. 6
- Or**
- b. Explain the structural features of Caste according to G.S. Ghurye.
27. a. Discuss the beliefs and rituals practiced in the Naga traditional religion. 8
- Or**
- b. Explain in brief the emergence of Nagaland as a State. What are the special provisions given to Nagaland in the Constitution of India and why? (4+4=8)
28. a. Briefly explain the two points of views about modernisation from tradition to modernity. Write about the process of modernisation in the colonial and post-colonial phase. 4+4=8
- Or**
- b. Explain some of the Social Consequences of Industrialisation in India. 8

2025
BUSINESS STUDIES

Full mark: 80

Time: 3 hours

General Instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 28 questions. All questions are compulsory.*
- iii) *Answer to questions carrying 2 marks should not exceed 50 words.*
- iv) *Answer to questions carrying 4 marks should not exceed 100 words.*
- v) *Answer to questions carrying 6 marks should not exceed 200 words.*
- vi) *Answer to questions carrying 8 marks should not exceed 300 words.*
- vii) *Internal choice has been provided in 6 marks and 8 marks questions.*

N.B: Check that all pages of the question paper is complete as indicated on the top left side.

Choose the correct answer from the given alternatives in questions 1 to 10.

1. Who formulates overall organizational goals and strategies for their achievements? 1
 - a) Top Level Management
 - b) Middle Level Management
 - c) Bottom Level Management
 - d) All of the above.

2. Management is an/a _____ concerned with personal application of knowledge and creativity to achieve the desired results. 1
 - a) Art
 - b) Science
 - c) Profession
 - d) All of the above.

3. Just after the declaration of Lok Sabha Election 2009 results, the Bombay Stock Exchange price index (sensex) rose by 2100 points in a day. Identify the environment factor which led to this rise. 1
 - a) Economic environment
 - b) Social environment
 - c) Political environment
 - d) Legal environment.

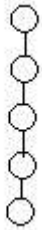
4. Once plans are drawn, it is difficult for the managers to change them irrespective of changes in the environment. This planning disadvantage is _____. 1
 - a) Planning leads to rigidity
 - b) Planning reduces creativity
 - c) Planning does not guarantee success
 - d) Planning is time consuming.

5. Shine Limited aims to increase sales of their product to 10,000 units. The production manager of the company suggest that before making any plan a statement of expected result in numerical terms should be prepared. Identify the type of plan in this case. 1
 - a) Objective
 - b) Budget
 - c) Strategy
 - d) Policy.
6. It is easier to fix responsibilities in _____ organisation. 1
 - a) Formal
 - b) Informal
 - c) Centralisation
 - d) Decentralisation.
7. Which one is the third step in the process of organizing? 1
 - a) Establishing, reporting relationships
 - b) Assignment of duties
 - c) Departmentalisation
 - d) Identification by division of work.
8. Name the function which reviews the operation in business unit. 1
 - a) Planning function
 - b) Staffing function
 - c) Controlling function
 - d) Directing function.
9. Who is the king in a free market economy? 1
 - a) Producer
 - b) Wholesaler
 - c) Consumer
 - d) Retailer.
10. Name the quality certification used in case of food products _____. 1
 - a) BSI
 - b) AGMARK
 - c) HALLMARK
 - d) ISI.
11. Write two social objectives of business. 2
12. A work is assigned to a group of 10 workers by the production manager. They were to produce 100 units each. Among them Ramu fall sick. The other workers refused to divide his work among themselves and concentrate only on the production of their own individual target of production. 1
 - i) Which principle of Fayol is violated? 1
 - ii) What does it state? 1
13. Distinguish between time study and motion study. 2

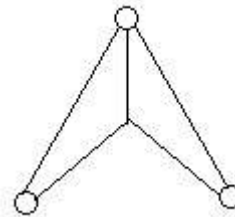
14. Name the type of communication network

1+1=2

i)



ii)



15. State four features of marketing.

2

16. Virmanu Limited manufacturing toothpaste pack their first tubes followed by cardboard boxes. 20 boxes of toothpastes were then placed in corrugated boxes and distributed to various distributors.

i) How many layers of packing were done?

1

ii) What was the purpose of third level of packing?

1

17. Write any two responsibilities of a consumer.

2

18. Mr. Dixit bought olive oil from Global Departmental Store and took the cash memo of ₹500 which he paid to them. Later on he found that MRP of olive oil was ₹425 only but the shopkeeper had put a sticker of ₹500 on the original price.

i) Do you think that the customer right is violated here? If yes, name it.

2

ii) Is Mr. Dixit a responsible customer? Give reason.

2

19. Pizza Hut is a chain stores making pizzas located at different states. The store has divided the whole process of making pizzas into small tasks or units. Instead of assigning the whole job of making pizza to one employee, different employees are given the task of making pizza bases, preparing toppings, baking of pizza, packaging etc. As a result, each employee has gained perfection and specialization in his job and improved his efficiency and effectiveness.

i) Which Principle of Fayol is followed by Pizza Hut?

1

ii) State the principle.

1

iii) Write any two positive effects of the principle identified above.

2

20. Explain any four importance of management.

4

21. Explain any four characteristics of business environment.

4

22. Write the advantages of critical point control and management by exception.

4

23. Explain any four characteristics of a good brand name.

4

24. **a.** Sigma Limited made the annual plan for the ensuring year on the assumption that the sales of its product will rise in near future. Subsequently, the major development took place when a new technology came in the market and also some new competitors with low priced quality product extended the market. These two unexpected development were found to negatively affect the sales of Sigma Limited.
- i) Which function of management is considered above and write the meaning? **2**
 - ii) Should Sigma Limited continue with same plan? **1**
 - iii) Explain any three limitations of management function which is considered in (i). **3**
- Or**
- b.** Explain the following features of planning:
- i) Planning is pervasive. **(2)**
 - ii) Planning is continuous. **(2)**
 - iii) Planning is futuristic. **(2)**
25. **a.** Distinguish between formal organization and informal organization. **6**
- Or**
- b.** Distinguish between delegation and decentralization on six basis.
26. **a.** Explain six semantic barriers to effective communication. **6**
- Or**
- b.** Explain the non- financial incentives that can be given to motivate the employees for improving their performance.
27. **a.** Training is beneficial both for the organization as well as for the employees. Explain any four benefits of training towards the organization and any four towards the employees. **8**
- Or**
- b.** Ravi tyres has some vacant posts in their company. In order to fill up the same, it adopted a process of identifying and choosing the best person out of a number of prospective candidates for a job and for this purpose the company conducted many steps like preliminary screening, selection test, final interviews and medical test. Through these steps, he selected persons out of many states like Karnataka, Delhi, Andhra Pradesh and Rajasthan.
- i) Identify and give the meaning in the above case as one of the function of management has been highlighted. **(2)**
 - ii) Name the aspect of function of management considered above and write the meaning. **(2)**
 - iii) Which value has been identified in the above case? **(1)**
 - iv) Explain any three important test for selection of employees. **(3)**

28. a. i) Explain any four features of capital structure. **4**
 ii) Calculate the earnings per share (EPS) of XYZ Company Limited. **4**

XYZ Company Limited

Particulars	₹
Total funds used	45,00,000
Interest rate	10%
Tax rate	50%
Earning Before Interest and Tax(EBIT)	5,00,000
Debt :	
Case 1	Nil
Case 2	15,00,000
Case 3	25,00,000

Or

- b. What is meant by working capital? How is it calculated?
 Discuss any six determinants of working capital requirements. (1+1+6=8)

2025

POLITICAL SCIENCE

Full marks : 80

Time : 3 hours

General instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 28 questions.*
- iii) *Marks are indicated against each question.*

N.B: Check to ensure that all pages of the question paper are complete as indicated on the top left side.

Choose the correct answer from the given alternatives in questions 1 – 10 (1x10=10)

1. 'The Congress System' or 'One Party Dominance System' was characterized by
 - (a) Absence of other political parties
 - (b) Voting rights to all adults
 - (c) Absence of competition for power
 - (d) Use of ballot papers
2. Which of the following Amendment Act restored the term of the Lok Sabha to 5 years?
 - (a) 41st Amendment Act, 1976
 - (b) 42nd Amendment Act, 1976
 - (c) 43rd Amendment Act, 1977
 - (d) 44th Amendment Act, 1978
3. The National Front Government that decided to implement Mandal Commission Report in 1990 was headed by
 - (a) Shri I.K. Gujral
 - (b) Shri V.P. Singh
 - (c) Shri Chandra Shekhar
 - (d) Shri Deve Gowda
4. Which among the following were the main themes of the G-20 Summit held in New Delhi, September 2023?
 - (i) Battling the climate crisis
 - (ii) Giving a voice to the global south
 - (iii) Combat international terrorism
 - (iv) Enhancing women's participation as decision makers

Codes

 - (a) (i), (ii) and (iv)
 - (b) (ii), (iii) and (iv)
 - (c) (i), (iii) and (iv)
 - (d) (i), (ii) and (iii)
5. The ideological differences between the USA and the Soviet Union gave rise to a situation known as
 - (a) Bi-polar world
 - (b) Non-Aligned Movement
 - (c) Cold war
 - (d) Alliance formation
6. Why was LTTE formed as a militant organization in Sri Lanka?
 - (a) For the liberation of Sri Lanka
 - (b) For a separate Tamil state
 - (c) For the protection of Sinhalese
 - (d) For the protection of lands
7. Which among the following organ is described as the 'enforcement' or the 'executive' wing of the United Nations?
 - (a) Security Council
 - (b) The Secretariat
 - (c) International Court of Justice
 - (d) The General Assembly

8. Which among the following have been the objectives of every WHO's program?

- (i) Fighting disease
- (ii) Fostering development
- (iii) Assistance to countries facing environmental issues
- (iv) Health promotion and health education

Codes

- (a) (i), (ii) and (iii) (b) (i), (iii) and (iv)
- (c) (i), (ii) and (iv) (d) (ii), (iii) and (iv)

9. Which of the following countries were members of the Triple Alliance?

- (i) Prussia (ii) Italy
- (iii) Russia (iv) Austria

Codes

- (a) (i), (ii) and (iii) (b) (i), (ii) and (iv)
- (c) (i), (iii) and (iv) (d) (ii), (iii) and (iv)

10. 'Globalization did affect state sovereignty'. What type of consequence is this?

- (a) Economic (b) Cultural
- (c) Social (d) Political

Answer the questions in about 50 words

2x8=16

- 11. Write any two implications of the Jammu and Kashmir Reorganization Act, 2019 that ended the special status for Jammu and Kashmir. (2)
- 12. Briefly explain ceiling on landholdings. (2)
- 13. Mention any two criticisms of pressure groups based on assessment of its role. (2)
- 14. What is meant by 'nuclear deterrence'? (2)
- 15. Write any two points against the relevance of Non-Aligned Movement. (2)
- 16. What is ASEAN Way? Name any two member countries of ASEAN. (1+1=2)
- 17. State the two main provisions of the Indo-Sri Lanka Accord of 1987. (2)
- 18. Write the meaning of 'free flow of capital' under a global economy with an example. (1+1=2)

Answer the questions in about 100 words

4x5=20

- 19. When was the Shimla Agreement signed? Mention three main provisions of the Agreement. (1+3=4)
- 20. Explain four causes that led to the disintegration of Soviet Union. (4)
- 21. Examine any two circumstances leading to globalization. (4)
- 22. Read the following passage carefully and answer the questions that follow. (1+1+1+1=4)

Just before independence, it was announced by the British Government that with the end of their rule over India, the paramountcy of the British Crown over the princely states would also lapse. This meant that all the states, as many as 565 in all, would become legally independent. The British Government took the view that all these states were free to join either India or Pakistan or remain independent if they so desired. This decision was left not to the people but to the princely rulers of these states. This was a very serious problem and could threaten the very existence of a United India.

The problem started very soon. First of all, the ruler of Travancore announced that the state had decided on independence. The Nizam of Hyderabad made a similar announcement the next day. Rulers like the Nawab of Bhopal were averse to joining the Constituent Assembly. (Internet source)

- i. The ruler of Hyderabad was popularly referred to as
 - (a) Maharaja
 - (b) Nawab
 - (c) Nizam
 - (d) Tipu
- ii. Which of the following was the largest princely state of India?
 - (a) Kashmir
 - (b) Hyderabad
 - (c) Junagarh
 - (d) Manipur
- iii. Which of the following was not a choice given to the princely states by the British?
 - (a) Free to join India
 - (b) Free to join Pakistan
 - (c) Free to remain independent
 - (d) Free to be with the British Crown
- iv. The decision of the British Crown in allowing the princely states the freedom of choice was a
 - (a) Threat to the United India
 - (b) Boon to India's development
 - (c) Favorable step for integration
 - (d) Cause of the partition of India

23. Read the passage given below and answer the questions that follow: (1+1+2=4)

With the US as the world's biggest power, the issue arises as to whether the UN can balance the USA's global hegemony. With unrivaled economic and military might, the US can afford to overlook the UN and also wield immense economic and administrative influence inside the organization.

Following the collapse of the Soviet Union, the globe became a unipolar world. However, analysts from throughout the world believe that America's unipolar era is drawing to a close. Because the UN is headquartered in the US and the US being the single greatest donor, it can effectively halt any policy that the US perceives to be detrimental to its interest. As a result, the UN does not provide an adequate check on USA's dominance. However, the UN has supplied a forum and helped bring together different nations to discuss divisive issues and, in several instances, to speak out against the USA's actions. While the UN is not a flawless organization, it has undoubtedly played a significant constructive part in the world's development and in solving conflicts. With the growing interaction and interdependence all over the world, it is hard to think that people could survive without an international organization like the UN. (Internet source).

- i. What is a unipolar world?
- ii. State one factor that makes US as the world's biggest power.
- iii. Mention any two important roles of the UN in this unipolar world.

Answers the questions in about 200 words.

6x3=18

24. a. Examine any six roles and functions of the NITI Aayog. (6)
Or
b. Examine any three consequences and effects of the declaration of Emergency.
25. a. Analyze the main tasks of the pressure groups. (6)
Or
b. Analyze any three advantages and three difficulties of coalition governments in India. (3+3=6)
26. a. Mention six points that should be done to make the United Nations more effective and more relevant. (6)
Or
b. Examine any three traditional modes of protection against threat to security.

Answer the questions in about 300 words

8x2=16

27. a. What is a political party? Briefly explain six main features of the party system in India. (2+6=8)
Or
b. Examine the factors responsible for the dominance of the Congress party during the first three General Elections in India. (8)
28. a. Explain three ways in which the present Chinese economy differ from the state-owned or the command economy. Write any two results of the China's new economic policy. (6+2=8)
Or
b. Examine any four causes responsible for the conflicts between India and Pakistan. (8)

**2025
PHYSICS**

Total marks : 70

Time : 3 hours

General instructions:

- i) Approximately 15 minutes is allotted to read the question paper and revise the answers.
- ii) The question paper consists of 34 questions. All questions are compulsory.
- iii) Marks are indicated against each question.
- iv) Internal choice has been provided in some questions.

N.B: Check that all pages of the question paper is complete as indicated on the top left side.

1. If both the charges and distance between them is doubled, then the new electrostatic force will be 1
(a) F (b) $2F$ (c) $3F$ (d) $4F$
2. The maximum current that can be drawn from a cell is when 1
(a) $R = 0$ (b) $r = 0$ (c) $R > r$ (d) $r > R$
3. A bar magnet of magnetic moment M is cut into two parts of equal lengths. The magnetic moment and pole strength of either part is 1
(a) $\frac{M}{2}, \frac{m}{2}$ (b) $M, \frac{m}{2}$
(c) $\frac{M}{2}, m$ (d) M, m
4. A magnetic field of flux density 1.0 Wbm^{-2} acts normal to a 80 turn coil of 0.01m^2 area. If this coil is removed from the field in 0.1s . The emf induced is 1
(a) 6V (b) 7V (c) 8V (d) 9V .
5. Which of the following rays is not an electromagnetic wave? 1
(a) Gamma rays (b) X-rays
(c) Microwaves (d) Beta rays.
6. If the critical angle for total internal reflection from a medium to vacuum is 30° , then velocity of light in medium is (velocity of light $= 3 \times 10^8 \text{ ms}^{-1}$). 1
(a) $1.5 \times 10^8 \text{ ms}^{-1}$ (b) $0.75 \times 10^8 \text{ ms}^{-1}$
(c) $3 \times 10^8 \text{ ms}^{-1}$ (d) $2 \times 10^8 \text{ ms}^{-1}$.

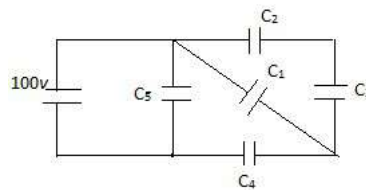
7. When a photon is accelerated (from rest) through a potential difference of one volt, the kinetic energy gained by it is equal to 1
 (a) 1837eV (b) 1 eV
 (c) $\frac{1}{1837}\text{ eV}$ (d) none of the above.
8. Rutherford's model of the atom was unstable, because 1
 (a) nuclei will break down
 (b) electrons move in circular orbits
 (c) orbiting electrons radiate energy
 (d) electrons are repelled by nucleus.
9. A transistor has an current gain of 0.95. If the change in emitter current is 100 mA, then the change in the collector current is 1
 (a) 95 mA (b) 99.05 mA
 (c) 100.95 mA (d) 100 mA.
10. In a communication system, noise is most likely to affect the signal in the 1
 (a) transmission medium (b) transmitter
 (c) information source (d) destination.
11. The test charge used to measure electric field at a point should be vanishingly small. Why? 1
12. A current of 5.0 A flows through a press of resistance 11Ω . Calculate the energy consumed by the press in 5 minutes. 1
13. Name two useful devices based on the phenomenon of mutual induction. 1
14. Define impact parameter. 1
15. What type of feedback is required in an oscillator. Why? 1
16. Define sky wave propagation. 1
17. A long wire carries a steady current. It is bent into a circle of one turn and the magnetic field at the centre of the coil is B. It is then bent into a circular loop of 'n' turns. Find the new magnetic field at the centre of the coil. 2
18. Deduce an expression to show that an atom behaves as a magnetic dipole. 2
19. a. Show that the displacement current produced is equal to the conduction current, when a capacitor is discharged. 2
Or
 b. State the principle of production of electromagnetic waves. What is the value of velocity of these waves?

20. a. The radius of oxygen nuclei (${}_8\text{O}^{16}$) is 2.8×10^{-15} m. Calculate the radius of the lead nucleus (${}_{82}\text{Pb}^{205}$). 2
- Or**
- b. Find out the binding energy per nucleon of an α -particle in MeV. The masses of α -particle, proton and neutron are 4.00150 u, 1.00728 u and 1.00867 u respectively.
21. How does the potential barrier change, when a p-n junction is reverse biased? Can the potential barrier be measured by putting a sensitive voltmeter across its terminal? 2
22. Which is the basic mode of communication used in satellite communication? Write the expression for the maximum line of sight with distance 'd' between two antennae having heights h_1 and h_2 . 2
23. a. Two point charges $q_1 = 3 \mu\text{C}$ and $q_2 = -3 \mu\text{C}$ are located 20cm apart in vacuum.
- What is the electric field at the mid-point of the line joining the two charges?
 - If a test charge of magnitude $1.5 \times 10^{-9}\text{C}$ is placed at this point, what is the force experienced by this charge?

Or

3

- b. Find the equivalent capacitance of the capacitors in the network shown below. Also, calculate the total charge in the network when a 100V battery is connected across the combination. Given that $C_1 = C_5 = 1 \mu\text{F}$, $C_2 = C_3 = C_4 = 2 \mu\text{F}$.



24. a. Find the expression of resistivity of a conductor in terms of relaxation time. What is the effect of temperature on the resistivity? 3
- Or**
- b. Using Kirchoff's rules, deduce the balanced condition of a Wheatstone bridge. Name a practical device where Wheatstone bridge principle is applied.

25. a. Using Ampere circuital law, find the magnitude of magnetic field along the axis of a current carrying solenoid. What kind of magnetic field is produced due to a straight solenoid? 3
- Or**
- b. A rectangular coil of N turns having area A is placed in a uniform magnetic field B. The coil makes an angle θ with respect to the direction of the field. When current I is passed to the coil, a torque acts on it. Find the magnitude of torque acting on the coil.
26. Find the induced emf developed in a conductor of length 'l' moving with velocity V in transverse magnetic field of strength B. What factors governs the direction of emf? 3
27. A double convex lens has 10 cm and 15 cm as its two radii of curvature. The image of an object, placed 30 cm from the lens, is formed at 20 cm from the lens on the other side. Find the refractive index of the material of the lens. What will be the focal length? What will be the focal length of the lens if it is immersed in water of refractive index 1.33? 3
28. State two essential conditions, which must be satisfied for two light sources to be coherent. Two light waves of amplitudes a_1 and a_2 interfere with each other. Show that $\frac{I_{\max}}{I_{\min}} = \left(\frac{a_1 + a_2}{a_1 - a_2}\right)^2$. 3
29. Discuss de-Broglie concept of matter waves with the help of relevant expressions. 3
30. Explain the energy level diagram of a hydrogen atom. 3
31. With a circuit diagram, explain how a junction diode can act as a full-wave rectifier. 3
32. a. Derive an expression for the electric field at a point on a perpendicular bisector of an electric dipole moment. If E_a and E_b are the electric field on the axial line and perpendicular bisector of dipole, then show $E_a = 2E_b$. Also, what is the direction of electric dipole moment vector of an electric dipole? 5
- Or**
- b. State and prove Gauss theorem. Two infinite parallel planes have uniform charge densities $\pm \sigma$. What is the electric field -
- i) in the region between the planes and
 - ii) outside the plates?

33. a. Define alternating current and root mean square value of alternating current. Prove that $I_{\text{rms}} = \frac{I_o}{\sqrt{2}}$, where I_o is peak value of current.

Or

5

- b. Establish an expression for the average power in a LCR series circuit. Prove mathematically that the average power over a complete cycle of alternating current through an ideal inductor is zero. What is the value of power factor at resonance?

34. Discuss the phenomenon of refraction through a prism and show that $A + D = i + e$, where the symbols have their usual meaning. Also, find the refractive index of the material of prism at minimum deviation position.

5

2025

FUNDAMENTALS OF BUSINESS MATHEMATICS

Full marks: 80

Time: 3 hours

General Instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 28 questions. All questions are compulsory.*
- iii) *Questions 1 to 10 carry 1 mark each.*
- iv) *Questions 11 to 18 carry 2 marks each.*
- v) *Questions 19 to 23 carry 4 marks each.*
- vi) *Questions 24 to 26 carry 6 marks each.*
- vii) *Questions 27 and 28 carry 8 marks each.*
- viii) *Internal choice has been provided in 6 marks and 8 marks questions.*

N.B: Check that all pages of the question paper is complete as indicated on the top left side.

Choose the correct answer from the given alternatives in questions 1 to 10.

1. Which of the following is not a set? 1
- a) The collection of whole number less than 200
 - b) The collection of boys in your class
 - c) The collection of talented actors in Hollywood
 - d) The collection of all books written by Tulsian.
2. If $\begin{vmatrix} 2x & 5 \\ 8 & x \end{vmatrix} = \begin{vmatrix} 6 & -2 \\ 7 & 3 \end{vmatrix}$, then the value of x is _____. 1
- a) 3
 - b) ± 3
 - c) ± 6
 - d) ± 7 .
3. Which of the following is the formula for calculating the inverse of a matrix? 1
- a) $\frac{2}{|A|} \times \text{adj}A$
 - b) $\frac{1}{|A|} \times \text{adj}A$
 - c) $-\frac{1}{|A|} \times \text{adj}A$
 - d) $\frac{1}{|2A|} \times \text{adj}A$.
4. The inverse of a matrix $A = \begin{bmatrix} 9 & 2 \\ 4 & 1 \end{bmatrix}$ is _____. 1
- a) $\begin{bmatrix} 9 & 2 \\ 4 & 1 \end{bmatrix}$
 - b) $\begin{bmatrix} -9 & 2 \\ 4 & -1 \end{bmatrix}$
 - c) $\begin{bmatrix} 1 & -2 \\ -4 & 9 \end{bmatrix}$
 - d) None of the above.

5. Sacrificing ratio=_____. 1
 a) New ratio - Old ratio b) Old ratio - New ratio
 c) New ratio + Old ratio d) None of the above.

6. For the purpose of calculation of bill of exchange, it is customary to take the leap year consisting of _____. 1
 a) 365 days b) 366 days
 c) 364 days d) None of the above.

7. Days of grace calculated in average due date is _____. 1
 a) Not considered b) Must be considered
 c) Should not be ignored d) None of the above.

8. In order to obtain income of ₹ 1,000 from 5% stock at 110, one must make an investment of _____. 1
 a) ₹20,000 b) ₹22,000
 c) ₹11,000 d) ₹10,000.

9. Minimize $Z=4x+6y$, $x+y \geq 1$, $x \geq 0$, $y \geq 0$ is _____. 1
 a) 10 b) 12
 c) 8 d) 4.

10. If 8 litres of water is mixed with x litres of milk and water is 10% of the mixture, then the value of x is _____. 1
 a) 80 litres b) 72 litres
 c) 70 litres d) 10 litres.

11. A and B are two sets having 3 elements in common, if $n(A)=4$ and $n(B)=5$, find: $n(A \times B)$ and $n\{(A \times B) \cap (B \times A)\}$. 2

12. Let $A = \{-1, 0, 1, 2\}$ $B = \{-2, -1, 0, 1, 7\}$ show that the function $f: A \rightarrow B: f(x) = x^3 - 1$ is one-one into. 2

13. In a business A, B and C makes a profit of ₹ 20,000 at the end of each year. If the capital of A: capital of B = 2:3 and capital of B: capital of C = 2:5, find their profits. 2

14. If the banker gained on a sum due in 4 months at 3% is ₹ 20. Find the true discount. 2

15. How much stock can be purchased by investing ₹ 4,640 in 5% stock at 110% and brokerage $\frac{1}{8}\%$ and stamp duty 5%? What is the annual income? 2

16. If a person invests a certain sum in 5% stock at ₹ 90 and an equal sum in 8% stock at ₹120. If his income from the later source exceeds his income from the former by ₹ 62. How much does he invest? 2
17. Write one advantage and one limitation of linear programming. 2
18. In a 35litre mixture of milk and water there is 60% milk. How much of milk should be added to make the water 35% of the total? 2
19. If $A = \{-1, 0, 2, 5, 6, 11\}$, $B = \{-2, -1, 0, 18, 108\}$ and $f(x) = x^2 - x - 2$, then examine if $f(A) = B$. 4
20. A, B and C started a business sharing profits/losses in the ratio of their capitals. The proportion of capital between A and B is 2:3 and that between B and C is 5:6. At the end of the year C received ₹ 6,000 more than B. Find the share of profit of each partner. 4
21. A bill was drawn on 20th July 2023 at 3 months after sight and was accepted on presentation on 1st August 2023. It was discounted on 23rd August 2023 at 5% per annum. Interest realised was ₹ 792. Find the value of the bill. 4
22. A man sells ₹ 3,500 stock in 4% at $102\frac{5}{8}$ and invest the proceed in 3% stock at $74\frac{7}{8}$. Calculate the change in his income, brokerage being $\frac{1}{8}\%$ in each case. 4
23. Graph the system of linear in-equations. Name the geometric figure so formed and find the order pair representing the vertices of the figure. 4

$$2x + 3y \leq 9$$

$$x + 4y \leq 4$$

$$x, y \geq 0$$
24. **a.** Out of 300 students in a college, 30 students speak all the three languages, English, Nagamese and Hindi, 60 speak English and Nagamese, 90 speak Nagamese and Hindi, 75 speak English and Hindi, 36 speak English only, 15 speak Nagamese only and 24 speak Hindi only. How many students does not speak any of the three languages? (Using algebra of sets method) 6

Or

b. A school awarded 10 medals in badminton, 15 medals in carrom and 12 medals in table tennis. If these medals went to a total of 25 students and only 2 students get medals in all the three sports. How many received medals in exactly two of the three sports?

25.a. Find a matrix X such that
$$X \begin{bmatrix} 1 & -2 & 3 \\ 0 & 2 & -1 \\ -4 & 5 & 2 \end{bmatrix} = \begin{bmatrix} 1 & -2 & 3 \\ -4 & 5 & 2 \\ 0 & 2 & -1 \end{bmatrix}$$

Or

6

- b. Given the National Income Determination Model

$$Y = C + I + G$$

$$C = a + b[Y - T]$$

$$T = d + tY$$

Where Y, C and T are endogenous variables and I, G are exogenous variables, a, b, d and t are constants. Write down the above system of equations in matrix form and solve for the endogenous variables.

26. a. Three vats A, B and C are filled with a mixture of spirit and water, the ratio of their volumes is 6:3:1. The ratio of spirit and water in vat A, B and C are 3:1, 4:1 and 5:2. If $\frac{2}{3}$ of the mixture of A, $\frac{1}{2}$ of the mixture of B and $\frac{1}{3}$ of the mixture of C are mix together, then find the ratio of spirit and water in the new mixture thus formed.

Or

6

- b. A shopkeeper wishes to mix tea at ₹ 80, ₹ 90, ₹ 110 and ₹ 120 per Kg respectively, how must he mixed them using the 1st two kinds in the proportion of 2:1 and the last two kinds in the proportion of 3:2 so that by selling the mixture at ₹ 100 per Kg he may earn $\frac{1}{20}$ of the receipt as his clear profit.

- 27.a. i) Write Crammer's Rule.

- ii) The sum of three numbers is 6. By adding the first and third and subtracting the second we get 2. If we multiply the first number by 2, add the second number and subtract the third number we get 1. Find the number (using Crammer's Rule).

Or

8

- b. i) Evaluate without expanding
$$\begin{vmatrix} 1 & bc & a(b+c) \\ 1 & ca & b(c+a) \\ 1 & ab & c(a+b) \end{vmatrix}$$

- ii) The equilibrium conditions for three related markets are given by

$$3P_1 + P_2 + P_3 = 32$$

$$\text{the equations } -15P_1 + 6P_2 - 5P_3 = 5.$$

$$5P_1 - 2P_2 + P_3 = 1$$

Find the equilibrium price for each market using determinants method.

28. a. In a development plan of a military cantonment, a contractor has taken a contract to build 10 houses of class I and 20 houses of class II. The matrix below shows the amount of each raw materials in truck to be used in each class of house.

	Sand	Bricks	Stone
Class I	7	8	4
Class II	10	7	5

- Find how many trucks of each raw materials the contractor should order. (Use matrix algebra)
- If sand ₹ 3,300 per truck, bricks cost ₹ 5,500 per truck and stone cost ₹ 2,000 per truck. Find
 - The cost of raw material for each type of house.
 - The total cost of raw materials for all the houses.

Or

8

- b. i) If $A = \begin{bmatrix} 3 & -4 \\ 1 & -1 \end{bmatrix}$ then prove by mathematical induction that

$$A^n = \begin{bmatrix} 1+2n & -4n \\ n & 1-n \end{bmatrix} \text{ where } n \text{ is positive integer.}$$

- A shopkeeper has in stock 40 dozen notebooks, 30 dozen pens and 12 dozen pencils. If the selling price are ₹ 20 per note book, ₹ 10 per pen and ₹ 5 per pencil, Find the total amount, the shopkeeper will get after selling all the items in the stock. (Use matrix algebra)

2025
ECONOMICS

Total marks : 80

Time : 3 hours

General instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
 - ii) *The question paper consists of 28 questions.*
 - iii) *Marks are indicated against each question.*
 - iv) *Answers to questions carrying 1 mark should not exceed one sentence.*
 - v) *Answers to questions carrying 2 marks should not exceed 50 words.*
 - vi) *Answers to questions carrying 4 marks should not exceed 80 words.*
 - vii) *Answers to questions carrying 6 marks should not exceed 120 words.*
 - viii) *Answers to questions carrying 8 marks should not exceed 200 words.*
- N.B: Check that all pages of the question paper is complete as indicated on the top left side.**

Choose the correct answer from the given alternative:

- 1. If tea leaves are used in a restaurant for brewing tea and the drinkable tea is sold to the customers, then the tea leaves will be **1**
 - a) final good
 - b) intermediate good
 - c) consumption good
 - d) capital good

- 2. RBI was established in the year **1**
 - a) 1933
 - b) 1934
 - c) 1935
 - d) 1936

- 3. Banks are able to create credit many times more than the initial deposit through **1**
 - a) secondary deposit
 - b) advancing loans
 - c) accepting deposits
 - d) providing overdraft facility

- 4. A fiscal policy measure to correct situation of excess demand is a/ an **1**
 - a) increase in government expenditure
 - b) decrease in government expenditure
 - c) increase in price level
 - d) decrease in taxes

- 5. Read the following statements and choose the correct alternative: **1**

Statement I: Zamindari system was introduced by the British to ensure proper control over the revenue system in India

Statement II: Zamindars were given full freedom to collect and keep the rent collected by them

- a) Both statement I and II are false
 - b) Both statement I and II are true
 - c) Statement I is false and statement II is true
 - d) Statement I is true and statement II is false
6. What does TRAI stand for? 1
 - a) Telecom Regulation Authority of India
 - b) Telecom Regulating Authority of India
 - c) Telecom Regulatory Authority of India
 - d) Telecom Regulated Authority of India
 7. Which of the following is an active factor of production? 1
 - a) land
 - b) capital
 - c) entrepreneur
 - d) labour
 8. Identify the type of unemployment in which people are employed only during a part of the year 1
 - a) disguised
 - b) seasonal
 - c) structural
 - d) frictional
 9. Which of the following is the objective of economic planning? 1
 - a) rise in prices
 - b) self sufficiency
 - c) more cyclical fluctuations
 - d) environment protection
 10. Who was the ex-officio chairman of the planning commission? 1
 - a) President
 - b) Finance Minister
 - c) Home Minister
 - d) Prime Minister
 11. What is a leakage? Write two examples. $1 + \frac{1}{2} + \frac{1}{2} = 2$
 12. Mention any two characteristics of Green GNP. 2
 13. If disposable income is ₹ 1,000 and saving is ₹ 250, find out APC. 2
 14. Distinguish frictional unemployment and structural unemployment. 2
 15. What was the condition of education in India on the eve of independence? 2
 16. State any four agricultural policies adopted by the government to favour agricultural sector. 2
 17. Explain briefly “social sector development” as a role of the government. 2
 18. How is economic growth and economic development defined by Schumpeter? 2
 19. Mention any four points of difference between micro economics and macro economics. 4

20. Define real national income. Write three advantages of real national income. 1+3 = 4
21. "Money as a store of value helps to shift purchasing power from present to the future". Explain. 4
22. Explain any two demerits of globalization. 4
23. Explain any two features of economic planning. 4
24. a. What is expenditure method? Explain the steps involved in estimating national income by expenditure method. 1+5 = 6
Or
b. Explain any three components of domestic income. (6)
25. a. Explain any three expansionary fiscal policy tools. 6
Or
b. Explain the implications of fiscal deficit. 6
26. a. Make a comparative study of per capita income between India and China on the basis of Purchasing Power Parity. 6
Or
b. Make a comparative study of Foreign Direct Investment (FDI) between India and China. 6
27. a. What is saving function? Derive the saving curve from the consumption curve with the help of a diagram. 8
Or
b. Explain how is under employment equilibrium achieved with the help of a diagram. 8

Alternate question for the visually impaired students:

- a. What is meant by break-even point? Explain with the help of an example. 6+2= 8
Or
b. Explain the working of investment multiplier with an example. 8
28. a. Explain the role and importance of cooperative societies in rural credit market in India. 8
Or
b. Explain any four factors contributing to environmental degradation in India. 8

**2025
BIOLOGY**

Total marks : 70

Time : 3 hours

General instructions:

- i) Approximately 15 minutes is allotted to read the question paper and revise the answers.
- ii) All questions are compulsory. Marks are indicated against each question.
- iii) The question paper consists of two parts – Part A and Part B.
Each part contain 15 questions.
- iv) Internal choice has been provided in some questions.
- v) Write the answers of Part A and Part B in separate answer books.
Marks shall not be awarded if the answers of both the Parts are written in one book nor marks awarded if answers of Part A are written in the answer book of Part B and vice-versa.

N.B: Check that all pages of the question paper is complete as indicated on the top left side.

PART - A

1. A typical angiosperm anther is dithecous which means that it is 1
 - (a) one lobed and the lobe has one theca
 - (b) two lobed and each lobe has two theca
 - (c) one lobed and the lobe has two theca
 - (d) two lobed and each lobe has one theca

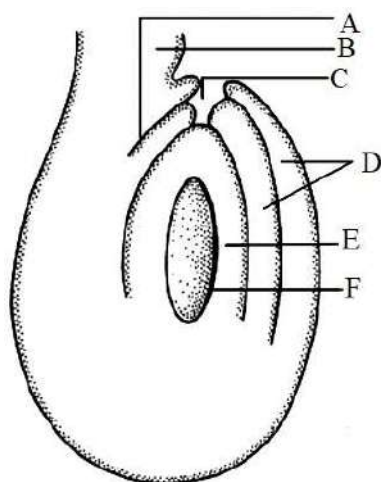
2. The first restriction endonuclease isolated was 1
 - (a) Hind I
 - (b) Hind II
 - (c) Sal I
 - (d) Eco RI

3. Match the process in column I with their uses in column II and choose the correct option: 1

Column I	Column II
A) ELISA	i) Direct introduction of rDNA
B) PCR	ii) Gene amplification
C) Biolistic	iii) Antigen-antibody interaction
D) Micro-injection	iv) Gold coated DNA
(a) A(iv), B(iii), C(ii), D(i)	(b) A(i), B(ii), C(iii), D(iv)
(c) A(ii), B(i), C(iv), D(iii)	(d) A(iii), B(ii), C(iv), D(i)

4. In the equation, $GPP - R = NPP$, R represents 1
 - (a) Respiration losses
 - (b) Radiant energy
 - (c) Reasoning
 - (d) Recycling

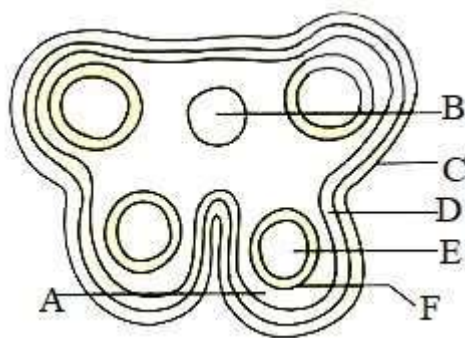
5. The relation between species richness and area for a wide variety of taxa on a logarithmic scale is a 1
 (a) Rectangular hyperbola (b) Straight line
 (c) Sigmoid curve (d) Sine curve
6. "Pollen-pistil interaction is a dynamic process involving pollen recognition followed by promotion or inhibition of the pollen". Give reasons. 2
7. State the difference between chasmogamous flowers and cleistogamous flowers. 2
8. Who first identified DNA as an acidic substance? What was it called then? 2
9. **a.** Define palindromic nucleotide sequence and provide an example. 2
Or
b. Give a short description on downstream processing.
10. **a.** Label the following parts on the anatropous ovule diagram.



Or

6x½ =3

- b.** Label the following parts on the structure of a young anther.



11. **a.** Mention three criteria that a molecule must fulfill to act as a genetic material. **3**

Or

b. Write the techniques involved in DNA fingerprinting.
12. How is separation and isolation of DNA fragments carried out in recombinant DNA technology? **3**
13. Differentiate between primary productivity and secondary productivity. **3**
14. **a.** What is transcription? Explain the steps in the process of transcription. **5**

Or

b. Explain the experimental proof on semi-conservative nature of DNA replication.
15. **a.** Define biodiversity. Explain the key components of 'the evil quartet' that contribute to biodiversity loss. **5**

Or

b. What happens to species diversity as we move from equator towards the pole? Explain, why tropical regions support a higher level of biodiversity than temperate or polar regions?

PART - B

1. Hormones secreted by the placenta to maintain pregnancy are **1**
 (a) HCG, HPL, progesterone, prolactin
 (b) HCG, HPL, estrogens, relaxin
 (c) HCG, HPL, estrogens, progesterone
 (d) HCG, progesterone, estrogen, glucocorticoids
2. Assertion(A): Adaptive radiation led to evolution of many varieties of finches. Reason(R): Originally finches were seed eaters. **1**
 (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) Both (A) and (R) are false
3. Virus-infected cells secrete proteins called interferons which protect non-infected cells from further viral infection is called **1**
 (a) cellular barrier (b) physiological barrier
 (c) physical barrier (d) cytokine barrier
4. A compound which is produced by an organism that can kill or retard the growth of other organism is called **1**
 (a) xenobiotic (b) antibiotic
 (c) antibody (d) probiotic

5. The first clinical application of gene therapy over a 4 year old girl was for **1**
 (a) Adenosine deaminase deficiency
 (b) Adenosine deficiency
 (c) Growth deficiency
 (d) Adenine deficiency

6. a. What is foetal ejection reflex and what does it trigger? **2**
 Or
 b. What are STIs? Write two early symptoms of the disease.

7. Define incomplete dominance and provide an example. **2**

8. How are genetically modified organisms (GMO) better than its wild gene? **2**

9. Expand GEAC. What is the purpose of GEAC? **2**

10. a. Give a comparison between the behaviour of chromosomes and genes according to Mendel. **3**
 Or
 b. How did natural selection affect the population of moth (in England)? Briefly explain.

11. What is immunity? How is active immunity different from passive immunity? **3**

12. What are methanogens? Write a short note on biogas plant. **3**

13. a. State Gause's 'Competitive Exclusion Principle'. Give two examples of competition in nature. **3**
 Or
 b. What is mutualism? Briefly explain mutualism with the wasp and fig plant interaction.

14. a. What is an ideal contraceptive? Explain the natural and surgical method of birth control. **5**
 Or
 b. What is the reproductive cycle in human female called? Explain the process in detail.

15. a. Explain Mendel's third law of inheritance with the help of a dihybrid cross. **5**
 Or
 b. Explain the primitive earth condition. Write any two theories related with the origin of life.

COMPUTER SCIENCE

Time : 3 hours

N.B: Check that all pages of the question paper are complete as indicated on the top left side.

iv) none of these

- (i) Which of the following is used to show all the tables of a given database?
 i) Show tables ii) Desc
 iii) Describe iv) Group by
- (j) To change the values of fields in a record, which of the following is used?
 i) ALTER table ii) UPDATE table
 iii) FETCH iv) FETCH ALL
2. Explain the pop() function with respect to lists in Python. 2
3. What will be the output of the following code? 2

```
def fun 1 () :
    a = 5
    b = a + 3
    print (b)
c = fun 1 ()
print (c)
```
4. What are the two conditions for writing a meaningful recursive function? 2
5. Explain the signature and usage of the following functions with respect to files: (i) open (ii) read 2
6. What is Software as a Service (SaaS)? 2
7. State four features of MySQL. 2
8. What are SQL aliases? Why is it useful? 2
9. What are the arguments of the connect function of the mysql.connector? 2
10. a. Define arguments and parameters. Can a function be defined without any parameters? 3
- Or**
- b. Compare iteration and recursion.
11. Differentiate between a module and a package in Python. 3
12. Define the term algorithm. Also, state the features of a good algorithm. 3
13. Explain the features of matplotlib. 3
14. a. Define the following data structures:
 (i) Array (ii) Tree (iii) Queue 3
- Or**
- b. State the applications of Stack.
15. a. Explain the different types of Network. 3
- Or**
- b. Differentiate between Peer-to-Peer Architecture and Client-Server Architecture.
16. Explain some of the common pre-defined numeric functions. 3

17. **a.** Explain the SELECT statement. Explain the use of **in** operator in the select statement.

Or

3

- b.** Write the steps to create a primary key in a table using SQL connector.

18. **a.** Write a program to find 5^n . Also, find its complexity.

Or

5

- b.** Which function is used to plot a pie chart in Matplotlib? Explain its arguments.

19. **a.** Write a program to insert an element at a given position in a given list.

Or

5

- b.** Convert $a+b*c-d/f$ to postfix and show each step of conversion.

20. **a.** Explain the seven layers of the OSI protocol suite.

Or

5

- b.** Explain the importance of the following devices:

- (i) Repeater (ii) Routers (iii) Hub (iv) Gateway
(v) Network Interface Controller

21. **a.** What is MySQL? State and explain the properties of MySQL.

Or

5

- b.** Define cartesian product. Exemplify the concept by taking two tables having two fields respectively. Each table should have three records.

2025
INFORMATICS PRACTICES

Total marks : 70

Time : 3 hours

General instructions:

- i) Approximately 15 minutes is allotted to read the question paper and revise the answers.
 - ii) The question paper consists of 22 questions. All questions are compulsory.
 - iii) Marks are indicated against each question.
 - iv) Internal choice has been provided in some questions.
- N.B:** Check that all pages of the question paper are complete as indicated on the top left side.

1. Choose the correct answer from the given alternatives: 10x1 = 10

- (a) In fibre optic cable, data travels in the form of _____.
 - i) sound
 - ii) magnetic wave
 - iii) light
 - iv) none of these
- (b) TCP stands for
 - i) Transmission Control Protocol
 - ii) Transfer Control Protocol
 - iii) Transport Control Protocol
 - iv) None of the above
- (c) Which of the following is not true about Open Source Software?
 - i) Freedom to use
 - ii) Freedom to modify
 - iii) Freedom to share
 - iv) Freedom to sell
- (d) Where can one see the list of bugs found in the program?
 - i) Output window
 - ii) Error window
 - iii) Source window
 - iv) None of these
- (e) _____ is an instance of a class.
 - i) Methods
 - ii) Variables
 - iii) Events
 - iv) Object
- (f) Which clause is used to filter data in query?
 - i) FILTER
 - ii) ORDER BY
 - iii) WHERE
 - iv) SEARCH
- (g) _____ tag is used to create a hyper link in HTML page.
 - i) <A>
 - ii) <I>
 - iii)
 - iv) <P>
- (h) Which method of 'Class' class is called to register a MySQL driver?
 - i) forName()
 - ii) registerDriver()
 - iii) getConnection()
 - iv) None of these

- (i) In RDBMS the tables related to each other using primary key and foreign key are called _____ and _____ table respectively.
 - i) Parent, child
 - ii) primary, secondary
 - iii) child, parent
 - iv) mother, child
- (j) Transitive dependency is related to
 - i) 1NF
 - ii) 2NF
 - iii) 3NF
 - iv) 4NF
2. Write a short note on the following networking devices: 2
 - i) Hub
 - ii) Modem
3. Define Java Development Kit (JDK). 2
4. Write short notes on logical error. 2
5. What are HTML tags? 2
6. What is the use of Horizontal Rule? 2
7. What is meant by presentation layer? 2
8. Write short notes on the following:
 - i) DML
 - ii) DDL2
9. What is MySQL workbench? 2
10. What is Primary key? 2
11. What is de-normalization? 2
12. What is the use of random () method? 2
13. a. What is inheritance? What are the different types of inheritances? 3

Or

b. Distinguish between Data Access Layers and Data Source Layer.
14. Discuss the various advantages of Internet. 3
15. What are the different elements of a table? 3
16. a. What is data integrity? Explain any two types of data integrities. 3

Or

b. Differentiate between INNER join and OUTER join.
17. Discuss functional dependency. 3
18. a. Explain the various screens provided to work with the Message Board Application. 3

Or

b. Explain the various functionalities of Mind Reader Game Application.
19. a. Compare and contrast between OSI reference model and TCP/IP reference model. 5

Or

b. What is open source concept? Explain any four advantages of open source concept.

- *****

Total number of printed pages: 3

NB/XII/PHI/I

2025
PHILOSOPHY

Full marks: 80

Time: 3 hours

General instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 28 questions.*
- iii) *Marks are indicated against each question.*
Answer to questions carrying 2 marks should not exceed 50 words.
Answer to questions carrying 4 marks should not exceed 100 words.
Answer to questions carrying 6 marks should not exceed 200 words.
Answer to questions carrying 8 marks should not exceed 300 words.

N.B: *Check that all pages are complete as indicated on the top left side.*

Choose the correct answer from the given option in Questions 1-10.

1. The doctrine which holds that knowledge about reality can be obtained by reason alone is 1
(a) Realism (b) Idealism
(c) Rationalism (d) Empiricism
2. Subjective idealism was propounded by 1
(a) George Berkeley (b) John Locke
(c) Rene Descartes (d) Spinoza
3. Cessation of suffering is found in 1
(a) The first noble truth (b) The second noble truth
(c) The third noble truth (d) The fourth noble truth
4. The traditional founder of the Yoga system is 1
(a) Baba Ramdev (b) Guru Shankaracharya
(c) Patanjali (d) Ramanuja
5. The invariable association of the middle term and the major term is called 1
(a) Vyapti (b) Prama
(c) Aparna (d) Sabda
6. In which language was Quran written? 1
(a) Arabic (b) Sanskrit
(c) Greek (d) Urdu
7. Assertion: Experience is the source of all knowledge. 1
Reason:
(a) Mind is a clean state at birth

- (b) All knowledge is a priori
 (c) Analytical propositions are empty of contents
 (d) The ideas are clear and distinct in our mind
8. Assertion: The final liberation from suffering is Nirvana. 1
 Reason:
 (a) It is the freedom from evil spirit
 (b) It is the freedom from everything that binds us
 (c) It is the freedom from impulses
 (d) It is the freedom from sense-object contact
9. Assertion: Substance according to Vaisesika is not an idea. 1
 Reason:
 (a) It is real and objective
 (b) It is not real
 (c) it is objective
 (d) It is dependent on knowledge by which it is known
10. Assertion: Anselm defines God as 'a being than which nothing greater could be conceived' 1
 Reason:
 (a) God is the first cause of existence
 (b) God is an intelligent designer
 (c) God is contingency
 (d) We can work out that God exist just by thinking about it
11. Define philosophy. 2
12. Distinguish between simple and complex ideas. 2
13. What is a-posteriori knowledge according to Kant? 2
14. Name any two critiques of Kant. 2
15. What is Meta ethics? 2
16. Name the orthodox schools of Indian philosophy. 2
17. What is Anekantavada? 2
18. Define the concept of maya. 2
19. Bring out the relation between science and philosophy. 4
20. Give the literal meaning of the word Nirvana. Name the Tripitakas of Buddha's teachings. 1+3=4

21. Write the seven kinds of conditional judgement of the Jainas. **4**
22. 'The evolution of the world has its starting point in the contact between Purusa and Prakirti'
- a) How evolution takes place? **(2)**
- b) What is Guna? **(1)**
- c) What is the first product of evolution? **(1)**
23. What are primary qualities? Give two examples each of primary and secondary qualities. **2+2=4**
24. a) Case Study: A man was found death in your locality. The police found out that the man allegedly committed suicide. A suicide note has been recovered. According to police, the deceased committed suicide as he was suffering from terminal illness and does not want to be a burden for his near and dear ones.
- i) What is suicide? Is suicide morally permissible? If so, in what circumstances? **2+2=4**
- ii) Given the above circumstances, do you think the deceased took the right step in ending his life? If yes/no, give reason. **2**
- Or**
- b) Distinguish between human cloning and therapeutic cloning. **(3+3=6)**
25. a) Explain any six common features of Indian philosophy. **6**
- Or**
- b) Explain the main teachings of Bhagavad Gita.
26. a) Name the kinds of valid knowledge recognized by Nyaya. Explain any two. **2+4=6**
- Or**
- b) What is Sabda? Explain the different kinds of Sabda.
27. a) What is the nature of social philosophy? How is social philosophy related to sociology? **2+6=8**
- Or**
- b) Define justice. Explain David Miller's concept of social justice.
28. a) i. What are the attributes of God? **(2)**
- ii. What are the five pillars of Islam? **(2)**
- iii. Explain the idea of Trinity in Christianity. **(4)**
- Or**
- b) Who put forward the teleological argument for the existence of God? Explain the teleological argument for the existence of God. **1+7=8**

2025
FINANCIAL MARKETS MANAGEMENT

Marks: 70

Time: 3 hours

General instructions:

- i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*
- ii) *The question paper consists of 26 questions.*
- iii) *Marks are indicated against each question.*
- iv) *Internal choice has been provided in 6 marks questions.*

N.B: *Check that all pages of the question paper is complete as indicated on the top left side.*

Choose the correct answer from the given alternatives:

1. Secondary market comprises of 1
 - a) Equity, derivatives and debt markets
 - b) Over – the – counter
 - c) Initial public offering
 - d) Bluechip index

2. NISM stands for 1
 - a) National Institute of Science Market
 - b) National Institute of Securities Market
 - c) NSE Institute of Securities Market
 - d) National Individual Securities Market

3. When did the National Stock Exchange launch the interest rate futures? 1
 - a) June 9, 2008
 - b) July 10, 2008
 - c) August 25, 2009
 - d) August 31, 2009

4. The first exchange in the world to use satellite communication technology is 1
 - a) BSE
 - b) NSE
 - c) NYSE
 - d) Dow Jones

5. The pre-open session is from 1
 - a) 9:00 am to 9:15 am
 - b) 9:30 am to 9:45 am
 - c) 10:00 am to 10:15 am
 - d) 10:30 am to 10:45 am

6. Who is responsible for post trade activities of stock exchange? 1
 - a) NSDL
 - b) NSE
 - c) BSE
 - d) NSCCL

- | | | |
|-----|---|----------|
| 7. | Limited physical market deals in the case of failure to give delivery at | 1 |
| | a) 10% over the actual trade price b) 15% over the actual trade price | |
| | c) 20% over the actual trade price d) 25% over the actual trade price | |
| 8. | Suppose an index contains two stocks A and B. A has a market capitalization of ₹1,000 crore and B has a market capitalization of ₹3,000 crore, then we attach a weight of | 1 |
| | a) $\frac{1}{4}$ to movements in A and $\frac{3}{4}$ to movements in B | |
| | b) $\frac{2}{4}$ to movements in A and $\frac{1}{4}$ to movements in B | |
| | c) $\frac{3}{4}$ to movements in A and $\frac{1}{4}$ to movements in B | |
| | d) $\frac{1}{4}$ to movements in A and $\frac{2}{4}$ to movements in B | |
| 9. | Counter party risk is quite high in case of | 1 |
| | a) forwards contract b) futures contract | |
| | c) option contract d) swaps | |
| 10. | Unsystematic risk is also called as | 1 |
| | a) systematic risk | |
| | b) counterparty risk | |
| | c) company specific risk or diversifiable risk | |
| | d) business risk | |
| 11. | Zhapu bought a financial asset from the RBI. This financial asset is an instrument of short term borrowing. He has bought it because he doesn't want to take risk and wants an assured return. This instrument is a promissory note. It is highly liquid. The instrument is also known as zero coupon bonds. On this instrument, it is written T-91. Based on the above case study, answer the following: | |
| | i) Which financial asset is indicated in the above case? | 1 |
| | ii) What does T-91 denote here? | 1 |
| 12. | Write any two special features of outstanding orders. | 2 |
| 13. | Give any two corporate hierarchies for performing order modification functionality. | 2 |
| 14. | Mention any two custodial trade reports. | 2 |
| 15. | State the two types of capital gains. | 2 |
| 16. | Write any two limitations of forward markets. | 2 |

17. Mention the four benefits of trading members of NSE. 4
18. Write any four special features of order status. 4
19. Write the four different types of order book in the NEAT system. 4
20. Many years back, Mrs. Abeni bought 200 shares of a leading automobile company. As per the settlement procedure she paid for the shares and received the share certificates in physical form. However, when she had sent those certificates to the company to get them endorsed in her name, she was informed by the company that those certificates were duplicate. Therefore, in order to protect the investor from many such malpractices, now only screen-based trading is done and dematerialization is compulsory.
In the context of the above case:
- i) What is screen based trading? 1
- ii) Give the meaning of dematerialization. 1
- iii) State any two advantages of dematerialization. 2
21. Explain any four functions of a clearing bank. 4
22. Explain any four reasons of popularity of index derivatives. 4
23. a. Explain any six reforms of Indian securities market. 6
Or
b. Discuss the consequences of expulsion of trading member.
24. a. Explain any six key features of market watch screen. 6
Or
b. Explain any six supplementary functions of menu list box.
25. a. Discuss any six salient features of direct payout to investors. 6
Or
b. Explain any six dealing in securities is deemed to be fraudulent or unfair trade practices relating to securities market.
26. a. What is forward contract? Explain the features of forward contracts. 1+5=6
Or
b. Explain the twelve futures terminologies. (12x ½ =6)

2025
MATHEMATICS

Full marks: 80

Time: 3 hours

General instructions:

- i) Approximately 15 minutes is allotted to read the question paper and revise the answers.
 - ii) The question paper consists of 22 questions. All questions are compulsory.
 - iii) Marks are indicated against each question.
 - iv) Internal choice has been provided in some questions.
 - v) Use of simple calculators (non-scientific and non-programmable) only is permitted.
- N.B:** Check that all pages of the question paper are complete as indicated on the top left side.

Section – A**1. Choose the correct answer from the given alternatives:**

- (a) Let $f: \mathbf{Z} \rightarrow \mathbf{Z}$ define as $f(x) = x^2$. Then f is 1
- (i) injective (ii) surjective
(iii) bijective (iv) neither injective nor surjective
- (b) The principal value of $\cos^{-1}\left(\frac{-1}{\sqrt{2}}\right)$ is 1
- (i) $\frac{\pi}{4}$ (ii) $\frac{-\pi}{4}$ (iii) $\frac{3\pi}{4}$ (iv) $\frac{-3\pi}{4}$
- (c) If $A = \begin{bmatrix} 3 & x-1 \\ 2x+3 & x+2 \end{bmatrix}$ is a symmetric matrix, then 1
- (i) $x = -4$ (ii) $x = 4$
(iii) $x = -3$ (iv) $x = 3$
- (d) If $y = \log(\cos x)$, then the value of $\frac{dy}{dx}$ is 1
- (i) $\frac{1}{\cos x}$ (ii) $-\tan x$ (iii) $-\cot x$ (iv) $\frac{-\sin x}{x}$
- (e) The function $f(x) = \sin x$ is increasing in the interval 1
- (i) $\left(0, \frac{\pi}{2}\right)$ (ii) $\left(\frac{\pi}{2}, \pi\right)$ (iii) $(0, \pi)$ (iv) $(0, 2\pi)$
- (f) The value of $\int \frac{e^{2x}-1}{e^{2x}+1} dx$ is 1
- (i) $\log(e^{2x} + 1) + c$ (ii) $\log(e^{2x} - 1) + c$
(iii) $\log(e^x + e^{-x}) + c$ (iv) $\log(e^x - e^{-x}) + c$

- (g) $\int_0^{\pi/4} \sin 2x \, dx$ is equal to 1
 (i) 0 (ii) 1 (iii) 2 (iv) $\frac{1}{2}$
- (h) The order of the differential equation $\left(\frac{ds}{dt}\right)^4 + 3s \frac{d^2s}{dt^2} = 0$ is 1
 (i) 4 (ii) 2 (iii) 1 (iv) not defined
- (i) The unit vector in the direction of the vector $\vec{a} = \hat{i} + \hat{j} + 2\hat{k}$ is 1
 (i) $\frac{1}{2}\hat{i} + \frac{1}{2}\hat{j} + \hat{k}$ (ii) $\frac{1}{\sqrt{3}}\hat{i} + \frac{1}{\sqrt{3}}\hat{j} + \frac{2}{\sqrt{3}}\hat{k}$
 (iii) $\frac{1}{\sqrt{5}}\hat{i} + \frac{1}{\sqrt{5}}\hat{j} + \frac{2}{\sqrt{5}}\hat{k}$ (iv) $\frac{1}{\sqrt{6}}\hat{i} + \frac{1}{\sqrt{6}}\hat{j} + \frac{2}{\sqrt{6}}\hat{k}$
- (j) If $P(A) = \frac{1}{2}$, $P(B) = 0$, then $P(A/B)$ is 1
 (i) 0 (ii) $\frac{1}{2}$ (iii) 1 (iv) not defined

Section – B

2. Find the value of $\tan^{-1}(1) + \cos^{-1}\left(-\frac{1}{2}\right) + \sin^{-1}\left(-\frac{1}{2}\right)$. 2
3. The bookshop of a particular school has 10 dozen chemistry books, 8 dozen physics books, 10 dozen economics books. Their selling price are ₹ 80, ₹ 60 and ₹ 40 each respectively. Find the total amount the bookshop will receive from selling all the books using matrix algebra. 2
4. Examine the continuity of the function f , defined by 2

$$f(x) = \begin{cases} x + 1, & \text{if } x \geq 1 \\ x^2 + 1, & \text{if } x < 1 \end{cases} \quad \text{at } x = 1.$$
5. A balloon, which always remains spherical has a variable radius. Find the rate at which its volume is increasing with the radius when the later is 10 cm. 2
6. Evaluate $\int \sin^{-1}\left(\frac{2x}{1+x^2}\right) dx$. 2
7. Find the general solution of the differential equation $\frac{dy}{dx} = \sqrt{4 - y^2}$, $(-2 < y < 2)$. 2
8. Find the area of a parallelogram whose adjacent sides are given by the vectors $\vec{a} = 3\hat{i} + \hat{j} + 4\hat{k}$ and $\vec{b} = \hat{i} - \hat{j} + \hat{k}$. 2
9. If $\vec{a} = 2\hat{i} + 2\hat{j} + 3\hat{k}$, $\vec{b} = -\hat{i} + 2\hat{j} + \hat{k}$ and $\vec{c} = 3\hat{i} + \hat{j}$ are such that $\vec{a} + \lambda\vec{b}$ is perpendicular to \vec{c} , then find the value of λ . 2
10. Two balls are drawn at random with replacement from a box containing 10 black and 8 red balls. Find the probability that 2
 i) first ball is black and second ball is red.
 ii) one of them is black and other is red.

Section – C

11. A confectionery shop is a place where sweets and chocolates are sold. The table below gives information on four varieties of chocolates sold there.

4

Chocolate name	Cost price (₹)
Dairy milk (D)	5
5-Star (S)	10
Crunch (C)	20
Kit-kat (K)	50

Let $A = \{D, S, C, K\}$ be the set containing the chocolates and $B = \{5, 10, 20, 50\}$ be the set containing their costs. A relation R is defined on set A as, $R = \{(x, y) : \text{cost of } x \leq \text{cost of } y\}$.

Read the information given above and answer the following:

- Express the relation R in roster form.
- Is R reflexive relation? Justify.
- Is R symmetric relation? Justify.
- Is R transitive relation? Justify.

12. a. If $A = \begin{bmatrix} 3 & 1 \\ -1 & 2 \end{bmatrix}$, show that $A^2 - 5A + 7I = 0$. Using this equation find A^{-1} .

Or

4

- b. Express the matrix $A = \begin{bmatrix} 3 & 3 & -1 \\ -2 & -2 & 1 \\ -4 & -5 & 2 \end{bmatrix}$ as the sum of a symmetric and a skew symmetric matrix.

13. Differentiate $x^{\sin x} + (\sin)^{\cos x}$ with respect to x .

4

14. a. Integrate $\frac{3x+5}{x^3-x^2-x+1}$

Or

4

- b. Evaluate $\int_0^{\pi/4} \log(1 + \tan x) dx$.

15. a. Find the general solution of the differential equation $(x + y) \frac{dy}{dx} = 1$.

Or

4

- b. Show that the given differential equation is homogeneous and solve it.
 $(x^2 - y^2)dx + 2xydy = 0$

16. Find the angle between the pair of lines $\frac{x-2}{2} = \frac{y-1}{5} = \frac{z+3}{-3}$ and $\frac{x+2}{-1} = \frac{y-4}{8} = \frac{z-5}{4}$.

4

17. Solve the Linear Programming problem graphically: Minimise $Z = 3x + 5y$ subject to constraints $x + 3y \geq 3, x + y \geq 2; x, y \geq 0$. 4

18. a. Of the students in a college, it is known that 60% reside in hostel and 40% are day scholars (not residing in hostel). Previous year results report that 30% of all students who reside in hostel attain A grade and 20% of day scholar attain A grade in their annual Examination. At the end of the year, one student is chosen at random from the college and he has an A grade, what is the probability that the student is a hosteller?

Or

- b. In answering a question on a multiple choice test, a student either knows the answer or guesses. Let $\frac{3}{4}$ be the probability that he knows the answer and $\frac{1}{4}$ be the probability that he guesses. Assuming that a student who guesses at the answer will be correct with probability $\frac{1}{4}$. What is the probability that the student knows the answer given that he answered it correctly?

Section – D

19. a. The sum of three number is 6. If we multiply third number by 3 and add second number to it, we get 11. By adding first and third number, we get double of the second number. Represent it algebraically and find the numbers using matrix method.

Or

- b. If $A = \begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix}$, then verify that $A \text{adj } A = |A|I$. Also find A^{-1} .

20. a. Prove that the volume of the largest cone that can be inscribe in a sphere of radius R is $\frac{8}{27}$ of the volume of the sphere.

Or

- b. Show that the right circular cone of least curved surface and given volume has an altitude equal to $\sqrt{2}$ times the radius of the base.

21. a. Using integration prove that the area of circle with centre at the origin and radius 'a' is πa^2 .

Or

- b. Find the area of the region bounded by the ellipse $9x^2 + 16y^2 = 144$.

22. **a.** Find the shortest distance between the lines $\vec{r} = \hat{i} + \hat{j} + \lambda(2\hat{i} - \hat{j} + \hat{k})$ and $\vec{r} = 2\hat{i} + \hat{j} - \hat{k} + \mu(3\hat{i} - 5\hat{j} + 2\hat{k})$.

Or

5

- b.** Find the shortest distance between the lines:

$$\frac{x+3}{-4} = \frac{y-6}{3} = \frac{z}{2} \text{ and } \frac{x+2}{-4} = \frac{y}{1} = \frac{z-7}{1}$$

2025

Information Technology ES (Vocational)

Total marks: 50

Time: 2 hours

General instructions:

- i) *Approximately 10 minutes is allotted to read the question paper and revise the answers.*
- ii) *All questions are compulsory.*
- iii) *The question paper consists of 21 questions.*
- iv) *Marks allocated to every question are indicated against it.*

N.B: *Check that all pages of the question paper are complete as indicated on the top left side.*

1. Choose the correct answer from the given alternatives: 10x1=10

- i. Four stages of active listening include hearing, understanding, evaluating and
 - (a) Evaluating
 - (b) Filtering
 - (c) Thinking
 - (d) Responding
- ii. Short cut key to bring up print dialog box is
 - (a) Ctrl+K
 - (b) Ctrl+L
 - (c) Ctrl+P
 - (d) Shift+F1
- iii. The capacity to do task effectively and on time is
 - (a) Efficiency
 - (b) Goal setting
 - (c) Time management
 - (d) Managing quality
- iv. A person or entity that receives something is
 - (a) Emotions
 - (b) Filtering
 - (c) Prejudgements
 - (d) Recipient
- v. Episodic series in digital format that can be easily downloaded from the internet is
 - (a) Whats app
 - (b) Facebook
 - (c) Podcast
 - (d) Amazon
- vi. To make something less severe, serious or painful, the negative impact of something
 - (a) Conserve
 - (b) Planning
 - (c) Compost
 - (d) Mitigate
- vii. Type of learning where the brain makes connection between two unrelated things
 - (a) Perceptual learning
 - (b) Conceptual learning
 - (c) Associative learning
 - (d) Attitudinal learning
- viii. Core feature of ERP system is a database that can be
 - (a) Shared
 - (b) Exploited
 - (c) Manipulated
 - (d) Restricted
- ix. Office services that typically include customer related services such as technical support, sales and marketing is
 - (a) Regional office
 - (b) Front office
 - (c) Telecom
 - (d) Back office
- x. Knowledge gained through observation and experimentation is
 - (a) Revealed knowledge
 - (b) Priori knowledge
 - (c) Tacit knowledge
 - (d) Scientific knowledge

Answer the following questions in one word or one sentence:

- | | |
|--|---|
| 2. What is self control? | 1 |
| 3. What is tabulation? | 1 |
| 4. What is enterprise resource planning? | 1 |
| 5. What is the other name of 80/20 time management method? | 1 |
| 6. What is outsourcing? | 1 |
| 7. List two components of procurement process. | 1 |
| 8. What is learning? | 1 |
| 9. Define knowledge. | 1 |

Answer the following questions in 20-50 words:

- | | |
|---|---|
| 10. State two ways to cope with stress. | 2 |
| 11. Write briefly two reasons for starting an enterprise. | 2 |
| 12. Differentiate between limited liability company and professional company. | 2 |
| 13. Briefly explain two types of ERP vendors. | 2 |
| 14. What is direct procurement? Give an example. | 2 |
| 15. What are internal and external stakeholders? | 2 |
| 16. Write two ways by which payroll outsourcing can help IT business. | 2 |
| 17. What is conceptual learning? | 2 |

Answer the following questions in 60-100 words:

- | | |
|---|---|
| 18. a. Explain briefly four challenges of enterprise resource planning (ERP). | |
| Or | 4 |
| b. Explain briefly four reasons why time management is important. | |
| 19. a. Explain briefly four benefits of procurement process. | |
| Or | 4 |
| b. Explain briefly four limitations of BPO. | |
| 20. Explain in brief any four characteristics of learning. | 4 |
| 21. Write four common learning practices. | 4 |

2025

Tourism & Hospitality (Vocational)

Total marks : 50

Time : 2 hours

General instructions :

- i) Approximately 10 minutes is allotted to read the question paper and revise the answers.
- ii) All questions are compulsory.
- iii) The question paper consists of 21 questions.
- iv) Marks allocated to every question are indicated against it.

N.B: Check to ensure that all pages of the question paper are complete as indicated on the top left side.

1. Choose the correct answer from the given alternatives: 10x1=10

- i. In active listening, comprehending the meaning of the words is
 - (a) Filtering
 - (b) Understanding
 - (c) Evaluating
 - (d) Responding
- ii. Identify the personality disorder that is characterized by a pervasive pattern of social inhibition and feeling of inadequacy.
 - (a) Suspicious
 - (b) Aggressive
 - (c) Emotional and impulsive
 - (d) Anxious
- iii. The ability to work with others is called
 - (a) Interpersonal skill
 - (b) Positive attitude
 - (c) Organizational skills
 - (d) Management skills
- iv. Under which sector of green job does recycling, composting and waste to energy conversion fall?
 - (a) Agriculture
 - (b) Appropriate technology
 - (c) Solid waste management
 - (d) Conservation of natural resources
- v. Which of the following is responsible to meet the needs and expectations of the guest in hospitality?
 - (a) The host employee
 - (b) The service delivery system
 - (c) The organisational support
 - (d) The hospitality process
- vi. Which of the following is **not** a law that protects women's rights in the workplace in India?
 - (a) Equal Remuneration Act, 1976
 - (b) Sexual Harassment of Women at Workplace Act, 2013
 - (c) National Action Plan for Gender Equality
 - (d) Provision of Transport Facility
- vii. The application of insecticides to rid an area of potentially dangerous insects or organisms is an example of
 - (a) Chemical control
 - (b) Biological control
 - (c) Physical control
 - (d) Ecological control
- viii. It is used to alert employees and emergency personnel to the presence of hazardous chemicals.
 - (a) Poison signs
 - (b) Corrosive signs
 - (c) Warning signs
 - (d) Oxidiser signs

- ix. It plays a crucial part in providing high-quality service because they help guests feel at home, which increases brand loyalty and generate more revenue.
- (a) Customer service (b) Proper etiquette
(c) Effective communication (d) Foreign language
- x) The process of analysing and defining the target market is referred to as
- (a) marketing strategy (b) target market segmentation
(c) marketing process (d) marketing and promotion

Answer the following questions in one word or one sentence:

2. Define active listening. 1
3. Name the two types of motivation. 1
4. Who is an entrepreneur? 1
5. State any two benefits of green jobs. 1
6. List any two ways of filling a complaint if a woman experience gender discrimination in a workplace in India. 1
7. What is meant by personal hygiene in hospitality sector? 1
8. State any one F&B workplace hazard. 1
9. Who are customers in hospitality industry? 1

Answer the following questions in 20-50 words:

10. What is spreadsheet? Name the two types of spreadsheets. 1+1=2
11. Define hospitality. What is the ultimate goal of hospitality? 1+1=2
12. Briefly explain any two policies of the companies that need to be in place to prevent sexual harassment. 2
13. Mention two safety procedures for safe and clean handling of the accommodation area. 2
14. What is an inspection? State one safety measure to be taken during inspection. 1 +1=2
15. Briefly explain any two varieties of amenities found in hotels. 2
16. Write two benefits of understanding foreign language in hospitality sector. 2
17. What is customer retention in hospitality sector? Write any one advantage of customer retention and offer promotion. 1+1=2

Answer the following questions in 60-100 words:

18. a. Explain 'Atithi Devo Bhava' in the context of hospitality. 4
Or
b. Explain four strategies that an organization can use to motivate and empower women to utilize their skills and become more involved in decision making processes.
19. Explain four ways through which the cleanliness of a workplace can be maintained. 4
20. Explain four ways to minimize food service place hazards. 4
21. a. Explain four major benefits of excellent communication in tourism and hospitality industry. 4
Or
b. What is customer interaction? Explain three importance of customers interaction in hospitality industry. (1+3=4)

2025

Retail (Vocational)

Total marks : 50

Time : 2 hours

General instructions :

- i) *Approximately 10 minutes is allotted to read the question paper and revise the answers.*
- ii) *All questions are compulsory.*
- iii) *The question paper consists of 21 questions.*
- iv) *Marks allocated to every question are indicated against it.*

N.B: *Check to ensure that all pages of the question paper are complete as indicated on the top left side.*

1. **Choose the correct answer from the given alternatives:** **10x1=10**
- i. Convictions or acceptance that something is true or exists, often without evidence or proof is known as
 - a) emotions
 - b) trust
 - c) assumptions
 - d) beliefs
 - ii. Emotional and impulsive personality disorder is characterized by
 - a) pervasive distrust
 - b) emotional instability
 - c) social inhibition
 - d) feeling of inadequacy
 - iii. It is the name of the element in which the address of the active cell is displayed.
 - a) Name box
 - b) Status bar
 - c) Title bar
 - d) Function wizard
 - iv. Which of the following is not a part of solid waste management?
 - a) Waste to energy
 - b) Recycling
 - c) Composting
 - d) Water treatment
 - v. In customer service, active listening skills are essential to
 - a) expand business
 - b) increase profit margin
 - c) provide customer care
 - d) analyze feedback
 - vi. The process of identifying and creating a new product idea along with all of its requirement is known as
 - a) product planning
 - b) product organization
 - c) product structure
 - d) product distribution
 - vii. It is important because it allows retail businesses to optimize platforms by understanding various aspects of customer interactions.
 - a) Customer management
 - b) Customer information
 - c) Customer service
 - d) Customer data
 - viii. It is based on how often a single customer buys from one particular outlet.
 - a) Customer satisfaction
 - b) Customer loyalty
 - c) Customer retention
 - d) Customer choice
 - ix. It can help sales associates perform each task consistently to produce the desired outcome.
 - a) Checklists
 - b) Notes
 - c) Dairies
 - d) Inventories

- x. Who is responsible for guiding a team of people during a particular initiative or towards a specific goal?
- | | |
|-----------------|----------------|
| a) Team Captain | b) Team Coach |
| c) Team Manager | d) Team Leader |

Answer the following questions in one word or one sentence:

- | | |
|--|---|
| 2. Define active listening. | 1 |
| 3. Write any two sources of motivation. | 1 |
| 4. What is a spreadsheet? | 1 |
| 5. What is meant by green jobs? | 1 |
| 6. List any two rules for handling customer problems. | 1 |
| 7. What is customer communication? | 1 |
| 8. Write any two social factors affecting customer behavior. | 1 |
| 9. State one responsibility of an employee in retail business. | 1 |

Answer the following questions in 20-50 words:

- | | |
|---|-------|
| 10. Briefly explain any two roles and functions of an entrepreneur. | 2 |
| 11. What is meant by customer problem? Mention any two types of customers problems. | 1+1=2 |
| 12. State two benefits of sharing and retrieving the customer service data for retailers. | 2 |
| 13. Briefly explain any two ways to collect customer service information. | 2 |
| 14. State two reasons to justify why customer relationship management is important. | 2 |
| 15. Write two differences between CRM and eCRM. | 2 |
| 16. Briefly explain two consumer service performance meters. | 2 |
| 17. Give two reasons to justify why workplace appearance is important. | 2 |

Answer the following questions in 60-100 words:

- | | |
|--|---|
| 18. Explain four methods of dealing with customer service problems by sales associate in a retail store. | 4 |
| 19. Explain four process of product planning. | 4 |
| 20. a. Explain any four process of customer relationship management. | 4 |
| Or | |
| b. Explain four types of retail services. | 4 |
| 21. a. Explain four ways that will help to identify opportunities for improvement in customer services. | 4 |
| Or | |
| b. Explain any four roles and responsibilities of team members in a retail business. | 4 |

2025

Healthcare (Vocational)

Total marks: 50

Time: 2 hours

General instructions:

- i) Approximately 10 minutes is allotted to read the question paper and revise the answers.
- ii) All questions are compulsory.
- iii) The question paper consists of 21 questions.
- iv) Marks allocated to every question are indicated against it.

N.B: Check that all pages of the question paper are complete as indicated on the top left side.

1. Choose the correct answer from the given alternatives: 10x1=10

- i. The capacity to take control and make decisions before others is known as
 - (a) Perseverance
 - (b) Initiative
 - (c) Commitment
 - (d) Resilient
- ii. Candidiasis is a
 - (a) Fungal disease
 - (b) Bacterial disease
 - (c) Viral disease
 - (d) Helminthic disease
- iii. Which of the following is the novel drug delivery method?
 - (a) Diffusion
 - (b) Mechanical
 - (c) Chemical
 - (d) Nano particle
- iv. Comprehending the meaning of the word is
 - (a) Hearing
 - (b) Understanding
 - (c) Evaluating
 - (d) Responding
- v. Glassware such as vials and ampoules for medications are placed in
 - (a) Black bag
 - (b) Blue bag
 - (c) Red bag
 - (d) White bag
- vi. The immune system which is already present at the time of birth is known as
 - (a) Innate immunity
 - (b) Acquired immunity
 - (c) Active immunity
 - (d) Passive immunity
- vii. Understanding one's own needs, desire, habits , personality traits, behaviour and feeling is called
 - (a) Self- awareness
 - (b) Self-management
 - (c) Self-control
 - (d) Self-motivation
- viii. The use of stethoscope for listening sounds of heart and bowel is
 - (a) Percussion
 - (b) Manipulation
 - (c) Auscultation
 - (d) Inspection
- ix. The short cut key to open format cells dialog is
 - (a) Ctrl + M
 - (b) Ctrl + 2
 - (c) Ctrl + F₂
 - (d) Ctrl + 1
- x. An instrument for determining the range of motion of a bodily joint is
 - (a) Accelerometer
 - (b) Goniometer
 - (c) Thermometer
 - (d) Barometer

Answer the following questions in one word or one sentence:

2. Give one significance of physical examination. 1
3. Define shredder. 1
4. List any two source of motivation. 1
5. What is the acronym for PACE? 1
6. Name the type of drugs used for lowering high blood pressure. 1
7. What is active immunity? 1
8. Define asepsis. 1
9. What is text box? 1

Answer the following questions in 20-50 words:

10. What is disease and pathogen? 1+1=2
11. List any two characteristics that inspire entrepreneurs. 2
12. What is capsule? Name the two types of capsule. 1+1=2
13. State two important reasons of early and accurate diagnosis of infection. 2
14. Write two possible side effects of immunisation. 2
15. Write any two basic principles of physiotherapy. 2
16. Why is confidentiality of a patient's record important? Give two reasons. 2
17. Mention any two importance of green jobs. 2

Answer the following questions in 60-100 words:

18. a. Briefly explain any four types of bed in the hospital. 4

Or

b. Briefly explain any four physical agents used in sterilization and disinfection.
19. a. Explain briefly the four types of intravenous injections. 4

Or

b. Explain any four techniques of disposing of a medicine.
20. In what ways is biomedical waste management crucial in the protection of both environment and public health? Provide four reasons. 4
21. What is medical record? Briefly explain three benefits of accurate medical documentation.. 1+3=4

2025

Beauty & Wellness (Vocational)

Total marks: 50

Time: 2 hours

General instructions:

- i) *Approximately 10 minutes is allotted to read the question paper and revise the answers.*
- ii) *All questions are compulsory.*
- iii) *The question paper consists of 21 questions.*
- iv) *Marks allocated to every question are indicated against it.*

N.B: Check that all pages of the question paper are complete as indicated on the top left side.

1. Choose the correct answer from the given alternatives: 10x1=10

- i. What is giving feedback to the speaker either verbally or non-verbally called?
 - (a) Hearing
 - (b) Understanding
 - (c) Evaluating
 - (d) Responding
- ii. Which of the following shows the address of the active cell?
 - (a) Name box
 - (b) Title Bar
 - (c) Status Bar
 - (d) Text Box
- iii. It is a business that has just begun to operate
 - (a) Entrepreneurship
 - (b) Initiative
 - (c) Startups
 - (d) Business Entrepreneurs
- iv. Which type of skin has less sebum secretion and collagen production?
 - (a) Normal
 - (b) Mature
 - (c) Oily
 - (d) Combination
- v. Identify the type of saree that looks beautiful with the dhati style draping and pleated pallu.
 - (a) Gujarati style drape
 - (b) Retro style drape
 - (c) Bengali style drape
 - (d) Maharashtrian style drape
- vi. This treatment is designed to provide both physical and psychological benefits
 - (a) Aromatherapy
 - (b) Diamond facial
 - (c) Intraceutical facial
 - (d) Classic facial
- vii. Which of the following is **not** a procedure of steaming?
 - (a) Create a steam tent
 - (b) Add essential oil
 - (c) Use hot water
 - (d) Moisturize the face
- viii. They provide advice to clients on various salon services and products.
 - (a) Beauty Therapist
 - (b) Salon Receptionist
 - (c) Beauty Advisor
 - (d) Salon Consultant
- ix. Which of the following program includes reward points?
 - (a) Online Payment
 - (b) Salon loyalty
 - (c) Gift cards
 - (d) Pre-paid cards
- x. To provide the body with the necessary vitamins and minerals, we need to
 - (a) eat balanced diet
 - (b) exercise regularly
 - (c) get enough rest
 - (d) practice good posture

Answer the following questions in one word or one sentence:

- | | |
|---|---|
| 2. Write any two barriers to active listening. | 1 |
| 3. What is tabulation? | 1 |
| 4. What is meant by stress management? | 1 |
| 5. What is foundation used for? | 1 |
| 6. List any two primary colours. | 1 |
| 7. Write any two types of facial treatments that is often combined with diamond facial. | 1 |
| 8. What is walk-in appointment booking? | 1 |
| 9. Write one dress code that need to be followed in a salon. | 1 |

Answer the following questions in 20-50 words:

- | | |
|---|-------|
| 10. Mention two steps to overcome personality disorder. | 2 |
| 11. Briefly explain any two benefits of green jobs. | 2 |
| 12. Briefly explain two steps to remove make-up. | 2 |
| 13. State two steps that need to be considered while applying concealer. | 2 |
| 14. What is ultrasonic exfoliation? Write one benefit of ultrasonic exfoliation. | 1+1=2 |
| 15. How does a lymphatic drainage facial machine work? | 2 |
| 16. What is retail area management in salons? Describe any one way to maintain the retail area. | 1+1=2 |
| 17. Why is personal hygiene in salons essential? Give two reasons. | 2 |

Answer the following questions in 60-100 words:

- | | |
|--|---|
| 18. Explain the steps needed to be considered while applying foundation. | 4 |
| 19. a. Explain four precautions to be taken while steaming. | |

Or 4

- | | |
|---|---|
| b. Explain the disadvantages of facial massage. | |
| 20. Explain four guidelines for accepting payments in a salon. | 4 |
| 21. a. Why is maintaining good health and posture important for beauty therapist? Briefly explain three ways to maintain good health and posture. | |

Or 4

- | | |
|---|--|
| b. What is professional etiquette? Explain three etiquettes to be followed in salons. | |
|---|--|

2025

Electronics (Vocational)

Total marks: 50

Time: 2 hours

General instructions:

- i) *Approximately 10 minutes is allotted to read the question paper and revise the answers.*
- ii) *All questions are compulsory.*
- iii) *The question paper consists of 21 questions.*
- iv) *Marks allocated to every question are indicated against it.*

N.B: *Check that all pages of the question paper are complete as indicated on the top left side.*

1. Choose the correct answer from the given alternatives: 10x1=10

- i. Things that divert one's attention from the main task or focus is
 - (a) Recipient
 - (b) Prejudgements
 - (c) Distractions
 - (d) Beliefs
- ii. Episodic series in digital format that can be easily downloaded from the internet
 - (a) Whats app
 - (b) Amazon
 - (c) Facebook
 - (d) Podcasts
- iii. 'Save as' command is a part of
 - (a) File menu
 - (b) Edit menu
 - (c) Format menu
 - (d) Insert menu
- iv. Business that has just begun to operate
 - (a) Investments
 - (b) Innovation
 - (c) Service
 - (d) Startups
- v. Which of the following is used to step up or step down the voltage?
 - (a) Generator
 - (b) Starter
 - (c) Motor
 - (d) Transformer
- vi. Which of the following is not a busway system component?
 - (a) Slip ring
 - (b) Joint stack
 - (c) Elbows
 - (d) Off sets
- vii. A load centre is also called
 - (a) Logical unit
 - (b) Processing unit
 - (c) Control unit
 - (d) Panel unit
- viii. A conductor that serves as a common connection for two or more circuits is
 - (a) Busway
 - (b) Trim
 - (c) MCB
 - (d) Busbar
- ix. What is the output of full wave rectifier?
 - (a) DC
 - (b) Pulsating DC
 - (c) AC
 - (d) Square wave
- x. Squirrel cage is a type of
 - (a) Induction motor
 - (b) Synchronous motor
 - (c) Brushed motor
 - (d) Brushless DC motor

Answer the following questions in one word or one sentence:

- | | |
|--|---|
| 2. What is active listening? | 1 |
| 3. What are organisational skills? | 1 |
| 4. What is service entrance? | 1 |
| 5. What is the working principle of a fuse based on? | 1 |
| 6. What is load centre? | 1 |
| 7. What is soft starter? | 1 |
| 8. Define programmable logic controller. | 1 |
| 9. List any two examples of electrical hazards. | 1 |

Answer the following questions in 20-50 words:

- | | |
|--|---|
| 10. List any two ways to manage stress. | 2 |
| 11. Mention any two importances of green jobs. | 2 |
| 12. Differentiate between ground fault (GFCI) and arc fault circuit interrupter (AFCI). | 2 |
| 13. What are the roles of tees and offsets in a busway system? | 2 |
| 14. Differentiate between AC fuse and DC fuse. | 2 |
| 15. Write two uses of electrical drives. | 2 |
| 16. Write a short note on main breaker load centre. | 2 |
| 17. What is meant by 'testing' in a control panel? Name one type of testing performed in a control panel system. | 2 |

Answer the following questions in 60-100 words:

- | | |
|--|---------|
| 18. a. Explain briefly (i) Circuit breaker (ii) Surge arrestor. | 2+2=4 |
| Or | |
| b. What is fire extinguisher? Write three procedural steps to operate fire extinguisher. | (1+3=4) |
| 19. Write four differences between earthing and grounding. | 4 |
| 20. What is a switch board? Explain briefly any three components of a switch board. | 1+3=4 |
| 21. a. Explain briefly the working of an alternator or AC generator. | |
| Or | |
| b. Explain the working principle of direct online starter. | 4 |

2025

Agriculture (Vocational)

Total marks: 50

Time: 2 hours

General instructions:

- i) Approximately 10 minutes is allotted to read the question paper and revise the answers.
- ii) All questions are compulsory.
- iii) The question paper consists of 21 questions.
- iv) Marks allocated to every question are indicated against it.

N.B: Check that all pages of the question paper are complete as indicated on the top left side.

1. Choose the correct answer from the given alternatives: 10x1=10

- i. Things that distract one's attention from the main task or focus is
 - (a) Beliefs
 - (b) Prejudgements
 - (c) Recipient
 - (d) Distractions
- ii. Which of the following is a way to manage stress?
 - (a) Negative thoughts
 - (b) Annoyed
 - (c) Staying calm
 - (d) Feel upset
- iii. The capacity to take control and make decisions before others is known as
 - (a) Initiative
 - (b) Perseverance
 - (c) Indecisive
 - (d) Shortcomings
- iv. Which is short cut key for inserting a new slide?
 - (a) Ctrl+M
 - (b) Ctrl+N
 - (c) Ctrl+O
 - (d) Ctrl+P
- v. The natural fertilizers obtained from plants and animals are called
 - (a) Inorganic fertilizers
 - (b) Organic fertilizers
 - (c) Phosphorous fertilizers
 - (d) Bio-fertilizers
- vi. Physical techniques that control the size, shape and direction of the plant growth
 - (a) Pruning
 - (b) Pinching
 - (c) Training
 - (d) Physical control
- vii. Which of the following grass is a favourite for golf courses?
 - (a) Blue grass
 - (b) Rye grass
 - (c) Bent grass
 - (d) Bermuda grass
- viii. The art of sculpting plants into various forms or shapes such as creatures, birds etc is
 - (a) Trophy
 - (b) Topiary
 - (c) Arboretum
 - (d) Edges
- ix. An orderly, geometrical layout characterizes a
 - (a) Japanese garden
 - (b) Wild garden
 - (c) Formal garden
 - (d) Informal garden
- x. Which of the following is an example of tall shrub?
 - (a) Jasminum sambac
 - (b) Ixora chinensis
 - (c) Bougainvillea
 - (d) Hibiscus rosasinensis

Answer the following questions in one word or one sentence:

- | | |
|--|---|
| 2. What is vermicomposting? | 1 |
| 3. Name any two insect pests of ornamental plants. | 1 |
| 4. What is zoysia? | 1 |
| 5. What is window gardening? | 1 |
| 6. What is avenue? | 1 |
| 7. Define seasonal flowers. | 1 |
| 8. What is stress? | 1 |
| 9. What is tabulation? | 1 |

Answer the following questions in 20-50 words:

- | | |
|---|---|
| 10. What is drip irrigation? Write one advantage of drip irrigation system. | 2 |
| 11. Differentiate between service and business entrepreneurs. | 2 |
| 12. Write briefly any two benefits of green jobs. | 2 |
| 13. Write a short note on establishing a lawn by turfing. | 2 |
| 14. Write two scopes of landscaping. | 2 |
| 15. Write any two reasons why biofertilizers are crucial. | 2 |
| 16. State two advantages of herbicides. | 2 |
| 17. What is edge plant? Give an example. | 2 |

Answer the following questions in 60-100 words:

- | | |
|---|---|
| 18. a. Explain briefly any four operations performed for maintaining lawns. | 4 |
|---|---|

Or

- | | |
|---|---------|
| b. What are inorganic fertilizers? Explain briefly the three categories of inorganic fertilizers. | (1+3=4) |
|---|---------|

- | | |
|---|---|
| 19. a. Explain briefly any four common diseases of ornamental plants. | 4 |
|---|---|

Or

- | | |
|---|--|
| b. What are weeds? Write three ways by which weeds prevent a crop from growing. | |
|---|--|

- | | |
|---|-------|
| 20. What is landscaping? Write three aims of landscaping. | 1+3=4 |
|---|-------|

- | | |
|--|---|
| 21. Explain briefly the classification of flowering and foliage trees. | 4 |
|--|---|

2025

Automotive (Vocational)

Total marks: 50

Time : 2 hours

General instructions:

- i) *Approximately 10 minutes is allotted to read the question paper and revise the answers.*
- ii) *All questions are compulsory.*
- iii) *The question paper consists of 21 questions.*
- iv) *Marks allocated to every question are indicated against it.*

N.B: *Check that all pages of the question paper are complete as indicated on the top left side.*

1. Choose the correct answer from the given alternatives: 10x1=10

- i. Convictions or acceptance that something is true or exists are called
 - (a) Prejudgements
 - (b) Distractions
 - (c) Filtering
 - (d) Beliefs
- ii. This disorder is also called avoidant personality disorder
 - (a) Suspicious
 - (b) Anxious
 - (c) Emotional
 - (d) Impulsive
- iii. Which of the following is a short cut key to insert new slide in a presentation?
 - (a) Control+L
 - (b) Control+M
 - (c) Control+N
 - (d) Control+X
- iv. Business person who engages in commercial and trading operations are known as
 - (a) Business entrepreneurs
 - (b) Social entrepreneurs
 - (c) Industrial entrepreneurs
 - (d) Service entrepreneurs
- v. Which manual contains the procedure of using a particular system or device?
 - (a) Policy manual
 - (b) Training manual
 - (c) User manual
 - (d) Service manual
- vi. Which of the following can be used to convert thermal energy into mechanical work?
 - (a) Poppet valve
 - (b) Radiator
 - (c) Piston
 - (d) Turbo charger
- vii. The process of aligning the steering and suspension components to ensure optimal performance and handling is
 - (a) Steering adjustment
 - (b) Steering system
 - (c) Suspension upgradation
 - (d) Steering comfort
- viii. Identify the correct stages of engine overhauling
 - (a) Testing, Inspection, Disassembly, Repair, Reassembly
 - (b) Inspection, Testing, Disassembly, Repair, Reassembly
 - (c) Disassembly, Inspection, Repair, Reassembly, Testing
 - (d) Inspection, Disassembly, Repair, Reassembly, Testing
- ix. These lights are typically white and are mounted at the front of the vehicles
 - (a) Turn lights
 - (b) Fog lamps
 - (c) Brake lights
 - (d) Head lights

- x. A device that controls the passage of current between the generator and the battery is
- | | |
|---------------|----------------|
| (a) Generator | (b) Relay |
| (c) Regulator | (d) Alternator |

Answer the following questions in one word or one sentence:

- | | |
|--|---|
| 2. Define active listening. | 1 |
| 3. List two types of personality traits. | 1 |
| 4. Write one use of spreadsheet. | 1 |
| 5. Who is an entrepreneur? | 1 |
| 6. What is warranty policy? | 1 |
| 7. Name any two materials that is used in making connecting rod. | 1 |
| 8. What is clutch? | 1 |
| 9. Write one requirement of a suspension system. | 1 |

Answer the following questions in 20-50 words:

- | | |
|--|---|
| 10. Briefly explain two benefits of green jobs. | 2 |
| 11. Differentiate between service manual and training manual. | 2 |
| 12. What is the use of engine bearing? Write one function of engine bearing. | 2 |
| 13. Differentiate between reversible and irreversible steering. | 2 |
| 14. Differentiate between top overhaul and full overhaul. | 2 |
| 15. List two functions of steering system. | 2 |
| 16. State two functions of ignition system. | 2 |
| 17. Differentiate between rechargeable and non-rechargeable battery. | 2 |

Answer the following questions in 60-100 words:

- | | |
|---|---|
| 18. a. Explain the maintenance procedure of coolant system. | |
| Or | 4 |
| b. Explain any four valve mechanism. | |
| 19. Write two advantages and disadvantages of propeller shaft. | 4 |
| 20. a. Explain briefly any four components of ignition system. | |
| Or | 4 |
| b. Explain any four symptoms of failing starter. | |
| 21. Write four differences between electric power steering and hydraulic steering system. | 4 |

2025
GEOGRAPHY

Total marks: 70

Time: 3 hours

General instructions:

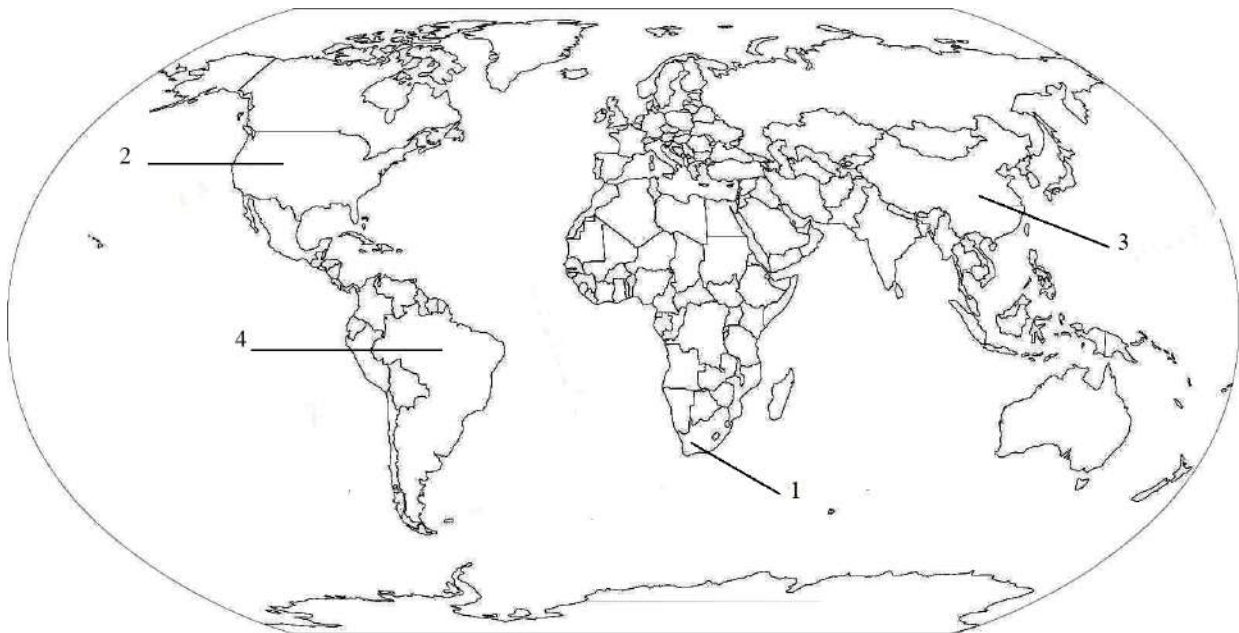
- i) Approximately 15 minutes is allotted to read the question paper and revise the answers.
- ii) All questions are compulsory. Marks are indicated against each question.
- iii) The question paper consists of 30 questions divided into Section A and Section B.
- iv) Internal choice has been provided in some questions.

N.B: Check that all pages of the question paper is complete as indicated on the top left side.

Section –A

1. Who defined Human Geography as “the description of the earth as abode of human beings” ? 1
(a) Friedrich Ratzel (c) L.D. Stamp
(b) Ellen Sample (d) Vidal dela Blache
2. I) Mediterranean Agriculture is highly specialized commercial agriculture in which citrus fruits are mainly grown.
II) Viticulture is the greatest speciality of this agriculture. 1
(a) Only statement I is correct
(b) Only statement II is correct
(c) Both statements are correct and related to one another
(d) Both statements are correct but not related to one another
3. What are the favorable factors for the location of industries? 1
(a) Distance (c) Energy sources
(b) Raw materials (d) All the above
4. Short distance trains which carry large number of passengers to big urban centres from the surrounding areas in the morning and back in the evening are called 1
(a) Railways (c) Commuter trains
(b) Broad gauge trains (d) Steam engines
5. Mineral resources are very unevenly distributed over the globe. This is one of the main reason for 1
(a) Industrial trade (c) Foreign investment
(b) International trade (d) Barter system
6. What is you meant by humanization of nature? 2

7. What is arithmetic population density? Explain it in arithmetic form. **2**
8. Why do digital divide occur between developed and developing countries? **2**
9. **a.** What are the three key areas with which human development is measured? Explain in brief. **3**
- Or**
- b.** Give two characteristics of countries with high index value and name one country having high index value.
10. Write a short note on viticulture. **3**
11. How is Remote Sensing different from Geographical Positioning System(GIS) ? **3**
12. Write short notes on the following: **3**
- (a) Packet stations.
- (b) Inland ports.
- (c) Naval ports.
13. **a.** What is mining? What are its two methods? How does physical and economic factors affect mining? **5**
- Or**
- b.** Differentiate between small scale and large scale industries.
14. **a.** Write three advantages and two disadvantages of pipeline transport. **5**
- Or**
- b.** Give five advantages of air transport.
15. On the given world map, four areas are numbered. Choose any two and match with the names given below. **1+1=2**
- a. Amazon Basin
- b. Cape Town



For visually impaired students in lieu of Q.no.15

- a. In which continent is Amazon Basin located?
- b. Cape Town is in which country?

Section - B

16. Any land which is left fallow for more than five years is known as 1
 - (a) Current fallow
 - (b) Wasteland
 - (c) Cultivable waste
 - (d) Net sown area

17. I. Availability of fresh water can be improved by recycling and sensing of water.
 II. Well and tube-well irrigation is done by using ground water. 1
 - (a) Only statement I is correct
 - (b) Only statement II is correct
 - (c) Both statements are correct and statement II correctly explain statement I
 - (d) Both statements are correct but not related to each other

18. Which of the following is the longest highway in India? 1
 - (a) NH 27
 - (b) NH 44
 - (c) NH 48
 - (d) NH 16

19. A port is called the gateway of a country because 1
 - (a) A lot of travelling happens through ports
 - (b) It is partially on enclosed area in the sea
 - (c) Migration takes place through ports
 - (d) Exports and imports are handled through ports

20. Some main sources of noise pollution are 1
 (a) Factories, demolition works, transport vehicles
 (b) Musical instruments, traffic, hospitals
 (c) Festivals, sports, library
 (d) Sirens, dog barking, flies
21. What is urbanization? 2
22. What is an educational town? Give one example. 2
23. What are common property resources? 2
24. Differentiate between rural and urban settlement. 2
25. Mention any three reasons for poor female participation in work in India. 3
26. Read the passage carefully and answer the following questions: 3
 Energy based upon exhaustible sources such as coal, mineral oil and nuclear minerals will not last long. Therefore, efforts are being made to obtain energy from inexhaustible sources. These sources of energy cover biogas, biomass, solar energy, wind energy, small-hydropower, solar photovoltaic power and recovery of energy from urban, municipal and industrial wastes.
 The importance of the renewable energy resources was recognized in the early 1970s. It is now accepted that renewable energy resources can provide the basis for sustainable energy development on account of their inexhaustible nature and environment friendly character.
 (a) Give one example of inexhaustible source of energy.
 (b) Why do we need an alternative for exhaustible source of energy?
 (c) What is the importance of renewable energy resources?
27. a. Mention the effects of air pollution on human health. 3
Or
 b. What is the difference between pollution and pollutants?
28. a. Explain in brief five land-use categories as maintained by Land Revenue Records. 5
Or
 b. Explain briefly any two conventional and three non-conventional sources of energy.
29. a. Explain in brief, the three categories of gauges found in Indian railways. Write a short note on two major improvement that have taken place in Indian railway. 5
Or

b. Why is computer considered one of the greatest inventions of man in the present day world? Mention four basic functions of a computer.

30. On the given map of India, five areas are numbered. Choose any three and match with the names given below. **1+1+1=3**

- a. Digboi Oil field.
- b. Jawaharlal Nehru Port.
- c. Longest Canal in India.



For visually impaired students in lieu of Q.no.30

- a. Which part of India is Digboi oil field located?
- b. In which state is Jawaharlal Nehru port situated?
- c. Where is the longest canal in India located ?

2025
MUSIC

Total marks : 70

Time : 3 hours

General instructions:

i) *Approximately 15 minutes is allotted to read the question paper and revise the answers.*

ii) *The question paper consists of 34 questions.*

iii) *Marks are indicated against each question.*

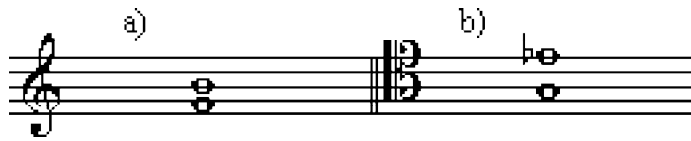
iv) *Internal choice is given in questions carrying 4 and 6 marks.*

N.B: *Check to ensure that all pages of the question paper is complete as indicated on the top left side.*

- | | | |
|-----|--|---|
| 1. | Which degrees of the scale form the pentatonic major scale? | 1 |
| 2. | What is the musical term used to describe music shifting to a new key to add interest to the listener? | 1 |
| 3. | Name two instruments that use tenor clef. | 1 |
| 4. | On what chord does an imperfect cadence end? | 1 |
| 5. | How many 'semiquaver triplets' make up a crotchet beat? | 1 |
| 6. | What are the enharmonic equivalents of $C^{\flat\flat}$ and F^{\sharp} ? | 1 |
| 7. | How is a diminished triad formed? | 1 |
| 8. | How is $\frac{6}{4}$ different from $\frac{3}{2}$? | 1 |
| 9. | Which major key has four flats in its key signature? | 1 |
| 10. | Define auxiliary notes. | 1 |
| 11. | Give the meanings of 'Energico' and 'Niente'. | 1 |
| 12. | What do the term 'Contemporary music' means? | 1 |

13. Name two instruments of the early period in history of Western music. 2

14. Write the inversions of the given intervals and name the new intervals. 1+1=2

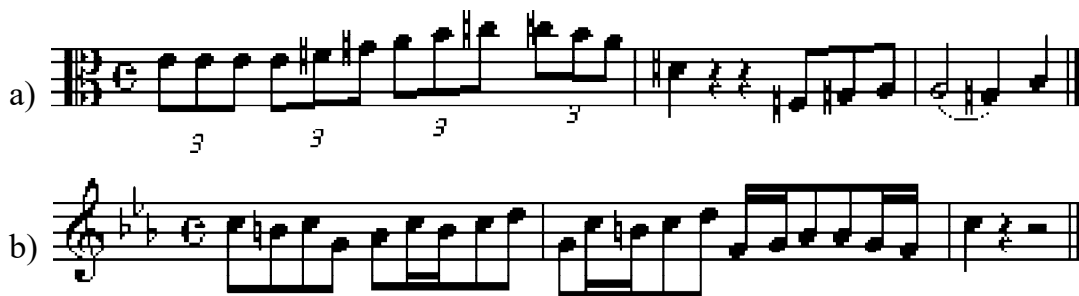


15. Draw an imperfect cadence using semibreves in the key of A^b major. Use 4-part chords. 2

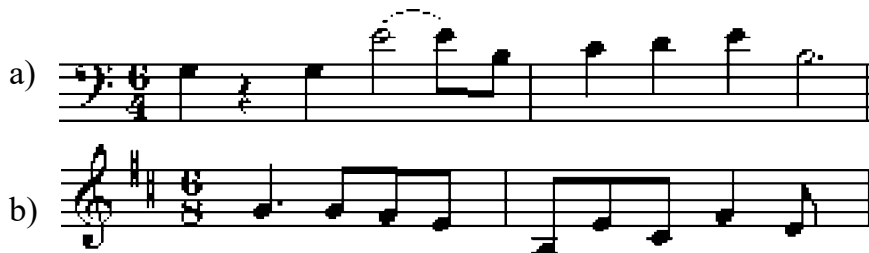
16. Add accented passing notes below the asterisks: 2



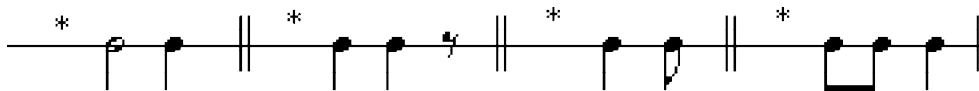
17. Work out the keys of the following tunes : 1+1=2



18. Rewrite the tunes in tenor clef so they sound at the same pitch. 1+1=2



19. Add the correct time signature under each asterisk mark. 2



- 7
4

- [illegible]

-

Answer any **five** from questions 23-29.

- a) A^b major ii c
b) B minor iv b

- [illegible]

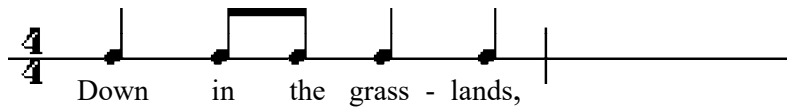
- G[♯] melodic minor scale on the treble stave, ascending and descending, with key signature.
- E major scale on the tenor stave, descending and ascending, without key signature.

- 4

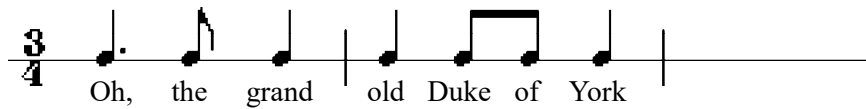
27. Continue the following rhythms to fit the given phrases.

2+2=4

- a) Down in the grasslands, Lions are roaring, chasing the Zebra across the plains.



- b) Oh, the grand old Duke of York
He had ten thousand men;
He marched them up to the top of the hill,
And he marched them down again.



28. Using semiquaver triplets, write a 3-note pattern broken chord in the given key, using the appropriate triad. Finish no more than two ledger lines above the stave. Use key signature.

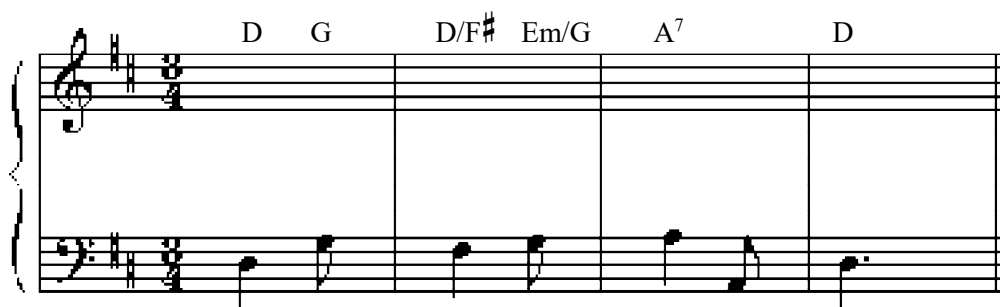
4

- Chord ∇ in B minor, ascending, bass stave

29. Complete the following as directed:

2+2=4

- a) Write the melody line. (add some passing notes)



- b) Write the bass line. (add repeated notes/octaves)



Answer any **three** from questions 30-34.

30. Write a brief note on the classical period. 6

31. Transpose the given melodies: 3+3=6

a) down a minor third.



b) up a perfect fourth.



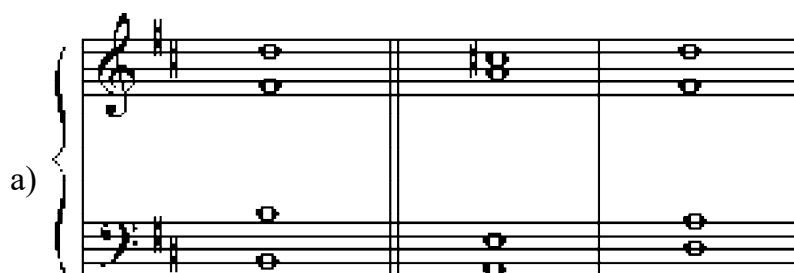
32. On the following scales, write the tonic, supertonic, sub-dominant and dominant seventh triads. Label them with roman numerals below and chord symbols above. Use key signatures and necessary accidentals.

3+3=6

a) A major, descending, on the alto stave.

b) F# harmonic minor, descending, on the treble stave.

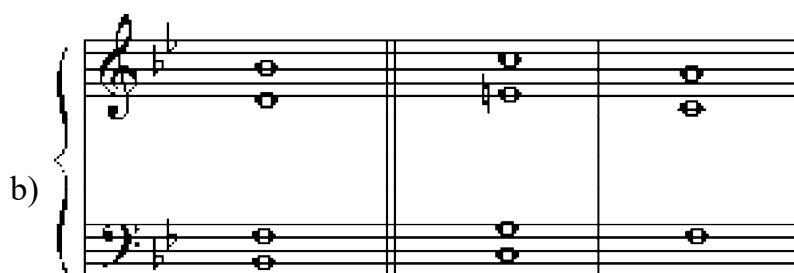
33. Work out the following modulations : 3+3=6



Tonic chord in _____

Perfect cadence in _____

The perfect cadence is in the _____



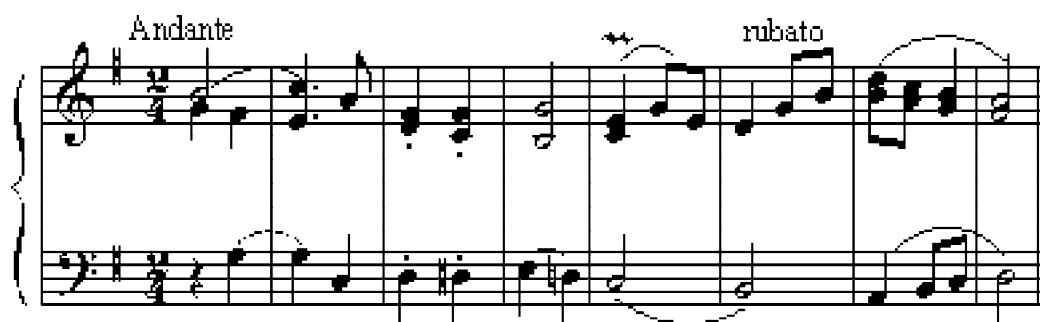
Tonic chord in _____

Perfect cadence in _____

The perfect cadence is in the _____

34. Look at the music and answer the questions that follow:

6x1=6



- What is the meaning of rubato?
- What key is the music in?
- What is the final cadence?
- Which chord symbol belongs above bar 6?
- What is the ornament seen in bar 5?
- Name the passing note in the bass part, bar 7.
