NAGALAND BOARD

QUESTION PAPER

2024

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2024
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 18 questions, divided into four sections A, B, C & D.
iii) Attempt questions based on specific instructions for each part. Write the correct question number in your answer sheet to indicate the option(s) being attempted.
*iv) Alternate question for the visually impaired has been provided in question no.13.**ONLY the visually impaired are to attempt this alternate question.***
v) Write the correct question number in your answer sheet to indicate the option being attempted.

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

SECTION-A (Literature)

Answer the following questions:

1. Choose the correct answer from the alternatives given: **3x1=3**

(a) Many young men in Mehouviü's village wanted to marry her because_____.
i. she was virtuous ii. she was wealthy
iii. she had a pleasing personality iv. both i and iii

(b) Malcom, the eldest son of King Duncan escaped and took refuge _____.
i. in Ireland ii. in the English Court
iii. with the Scottish nobles iv. with the Norwegian troops

(c) In which year did Nelson Mandela win the race for President of South Africa?
i. 1992 ii. 1993
iii. 1994 iv. 1995

2. Why did Morusa behead the woman at the loom? **3**

3. What did Gandhiji do to please his friend and reassure him that he was fit for English society?

Or **3**

What was Mandela's immediate challenge when he became the President of South Africa?(Invictus)

4. Does Macbeth see the evil side of his actions? Use examples from the text to explain.

Or **5**

Briefly describe the incident at the Holborn Restaurant. (Imitating the English Gentleman)

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5. **Answer either 5(i) or 5 (ii) or 5 (iii)** **5**

(i) Read the lines and answer the questions that follow:

Tenyur the rich man's son coveted Etiben
He came with the dowry before Jina did
No one ever heard Jina's heart plead
Not the Parents, no friends, no gods saw the pain.

(a) Who is 'he' referred to in the second line? (1)
(b) What did he do and why? (2)
(c) How did Jina feel? (2)

(ii) Give the summary of the poem, 'Death the Leveller'. (5)

(iii) (a) In the poem, 'The Windhover', how is the Octet (first eight lines) different from the Sestet(last six lines)?

Or (5)

(b) 'This poem is a classic example of imagination, mystery and creativity' Comment. (The Listeners)

6. *She's gone now. Throw <u>it</u> down quickly, for the Lord knows when she'll be out of it again.*
(i) Who is the speaker here? **1**
(ii) Who is 'she' referred to here? Explain the underlined word 'it' in this context. **2**

7. Give the character sketch of Bartley.

Or **3**

'What more can we want than that?' What makes Maurya say this?

SECTION - B (Reading)

8. **Read the passage given below and answer the questions that follow:**

(1)It is a land of folklore passed down the generations through word of mouth. Here, music is an integral part of life; folk songs eulogizing ancestors, the brave deeds of warriors and traditional heroes; poetic love songs immortalizing ancient tragic love stories ; Gospel songs that touch your soul (should you have a religious bent of mind) or the modern tunes rendered exquisitely to set your feet a-tapping.

(2)Each of the17 odd tribes and sub-tribes that dwell in this exotic Hill State can easily be distinguished by the colourful and intricately designed costumes, jewellery and beads that they adorn. The present generations of Nagas have ventured into fashion designing in a big way, representing fabrics that represent the ancestral motifs blended with modern appeal. Indeed, it is a beautiful mix of the past with the present, a paradise for those who are into fashion designing .This is an affluent fashion station of the East.

(3)In days of yore, every warrior had to earn the traditional fineries through acts of valour in order to wear them. Nature could not have been kinder to Nagaland, sometimes referred to as the Switzerland of the East; the exquisitely picturesque

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landscapes, the vibrantly colourful sunrise and sunset, lush and verdant flora; this is a land that represents unimaginable beauty, moulded perfectly for a breathtaking experience.

(4)Nagaland is blessed with salubrious climate throughout the year and one can visit it anytime. If one is looking for a quiet getaway from the hustle and bustle of city life it provides the right ambience; as life here is laidback and slow-providing a tension free life. For the adventurous and the intrepid, Nagaland is an ideal place for trekking, rock climbing, jungle camping and offers limitless exploration possibilities in its lush and vibrant sub-tropical rain forests which are also a treasure trove of a plethora of medicinal plants.

(i) Answer the following questions:

(a) What forms an integral part of the lives of the Nagas? **1**

(b) What distinguishes one tribe from the other? **2**

(c) How has nature been kind to Nagaland? **2**

(ii) Answer the questions given below as directed: **3x1=3**

(a) *Indeed it is a beautiful mix of the past with the present, a <u>paradise</u> for those who are into fashion designing-* which of the following is a synonym of the underlined word in the given context? (Paragraph 2)

i. Heaven ii. Flourishing ground

iii. State of happiness iv.Garden

(b) How is Nagaland a quiet getaway? (Paragraph 4)

i. It provides tension free life.

ii. It provides scope for adventure.

iii. It is free from the hustle and bustle of city life.

iv. All of the above

(c) Nagaland is an ideal place for _____.(Paragraph 4)

A. Trekking

B. Boating

C. Rock climbing

D. Para gliding

Select the correct option

i. Only A ii. Only B

iii. Only A and C iv.Only A and D

9. Read the passage given below and answer the questions that follow:

(1)Cardamom, the Queen of all spices, has a history as old as the human race. Warm humid climate, loamy soil rich in organic matter, distributed rainfall and special cultivation and processing methods all combine to make Indian cardamom truly unique in aroma, flavour, size and it has a parrot green colour. Two types of cardamom are produced in India. The first type is the large one, which has not much significance as it is not traded in the future market. It is cultivated in North-eastern area of the country. The second type is produced in the Southern states and these are traded in the future market. These are mainly cultivated in Kerala, Tamil Nadu and Karnataka.

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(2)Cardamom is an expensive spice, second only to saffron. It is often adulterated and there are many inferior substitutes from cardamom-related plants such as Siam cardamom, Nepal cardamom, Winged Java cardamom, etc. However, it is only Elettaria cardamom which is the true cardamom. Indian cardamom is known in two main varieties: Malabar cardamom and Mysore cardamom. The Mysore variety contains levels of cineol and limonene and hence is more aromatic.

(3)North India is the main market for cardamom produce in the country. Normally, domestic demand goes up during the major festivals such as Diwali, Dussehra and Eid. Colour, size and aroma are the major variables that shape cardamom prices in the Indian market.

(4)Kerala is the main producer of cardamom and contributes up to 60% in total production. Karnataka produces around 25% cardamom of the total production. Ooty is the main producer of cardamom in Tamil Nadu and contributes around 10-15% of the total production. Besides India, Guatemala also produces around 2,200 tons of cardamom.

(i) Answer the following questions:

(a) How is cardamom known as? **1**

(b) What are the two main varieties of Indian cardamom? **2**

(c) When does the domestic demand for cardamom go up in India? **2**

(ii) Read the passage and answer the questions given below as directed: **3x1=3**

(a) According to the passage, which of the following states does not produce cardamom? (Paragraph 1)

i. Kerala ii. Karnataka
iii.Tamil Nadu iv. Bihar

(b) *Cardamom is an expensive spice, second only to saffron. It is often* <u>*adulterated.*</u> Which of the following is the correct antonym of the underlined word? (Paragraph 2)

i. Degraded ii.Pure
iii. Impure iv.Superior

(c) The true cardamom is known as_____. (Paragraph 2)

i. Winged Java Cardamom ii. Elettaria Cardamom
iii. Siam Cardamom iv.Nepal Cardamom

10. **Read the poem carefully and answer the questions that follow:**

Where go the Boats?

Dark brown is the river.
Golden is the sand.
It flows along for ever,
With trees on either hand.

Green leaves a-floating,
Castles of the foam,
Boats of mine a- boating –
Where will all come home?

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On goes the river
And out past the mill,
Away down the valley,
Away down the hill.

Away down the river,
A hundred miles or more,
Other little children
Shall bring my boats ashore. (R.L Stevenson)

(i) Choose the correct rhyme scheme of the poem. **1**

a. abbc b. aabc
c. abcc d. abab

(ii) Fill in the blanks to complete the summary of the poem: **6x½=3**

This little poem is all about a _____. It longs for its _____which are probably made of paper. They flow along a _____ which is dark brown in colour while its bed is _____. It flows along trees, green leaves and bubbles of water called _____ .It passes through the mill, down the valley and hill. At the end boats may reach _____.

SECTION -C (Writing)

11. Answer **<u>any one</u>** of the following in about 60-80 words: **4**

a. You are John, the President of the student council of Oakfield School,Longleng. Write a notice for the notice board to inform students about the upcoming Annual Cultural Festival providing details of the programme and schedule.

Or

b. You have opened a new Garment shop. Draft an advertisement to be published in the newspaper. Think of something unique so that your shop attracts more customers.

12. Write a paragraph in about 60-80 words on , 'Importance of Education' using the inputs given: **4**

Education- weapon to improve life- beneficial for employment-life long process-better communication- discipline - efficiency-knowledge-a ray of light in the darkness

13. Based on the visual input given below, write on " Blood donation" in about 100-150 words: **5**

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Alternate question only for the visually impaired students: *ONLY the visually impaired are to attempt this alternate question.* (5)

Based on the inputs given below, write on 'Social Media' in about 100-150 words.

Sharing ideas and information-virtual network-advantages-global connectivity-education tool-spread awareness-disadvantages also-addictive-reduced physical activity-hacking-scam-fake news-promotes laziness

14. Answer **any one** of the following in about 200 words: **7**

a. Write a letter to the manager of a hotel complaining about the inefficient and rude staff, poor service and low standard of the food that was served to you when you went to the hotel.

Or

b. As the Sports Secretary of your School, send a report to the headmaster on the recent victory of your school in the Inter-School Cricket tournament.

SECTION- D (Grammar)

15. Rewrite the given sentences as directed in the brackets: **5x1=5**

(a) He swam across the river.
(State whether the underlined word is a transitive or an intransitive verb)

(b) Milind felt like a fool.
(Identify the linking verb in the given sentence)

(c) The water in the pond was dirty.
(Underline the phrase in the sentence)

(d) The tall man_____ near the shop knows me.
(Complete the sentence with a non-finite verb)

(e) The team is confident of winning the match.
(Rewrite the sentence changing the underlined Noun phrase into Noun clause.)

16. Change the narration: **4x1=4**

(a) Rohan said to me, "My sister flew to Mumbai last year."
(b) Samuel asked me if I was going on a picnic.
(c) The beggar said to the woman, "Please give me some money."
(d) Sheena says that she has done her duty.

17. Change the voice: **3x1=3**

(a) They registered a formal complaint with the police.
(b) A tough assignment has been given by the teacher.
(c) The student is asking a difficult question.

18. Combine each of the following pairs of sentences by using adjective clause: **3x1=3**

(a) You put my spectacles somewhere. Show me the place.
(b) The nurse called a doctor. He came immediately.
(c) I met the sailor. He was the one who saved many people in the ferry disaster.

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Total number of printed pages : 6 *NB-T/SS/1*

2024

SOCIAL SCIENCES

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 19 questions. All questions are compulsory.

iii) Internal choice has been provided in some questions.

iv) Marks allocated to every question are indicated against it.

v) Alternate questions for the visually impaired has been provided in question nos. 1b and 15. ***ONLY the visually impaired are to attempt this alternate questions.***

vi) Write the correct question number in your answer sheet to indicate the option being attempted.

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

1. **Choose the correct answer from the given alternatives :**

(a) Which one of the following is true regarding the Treaty of Constantinople of 1832? **1**

(i) It recognized Turkey as an independent nation

(ii) It recognized France as an independent nation

(iii) It recognized Greece as an independent nation

(iv) It recognized Germany as an independent nation

(b) This portrait was painted by Lorenz Clasen in 1860. Identify the portrait. **1**

(i) Germania (ii) Hispania

(iii) Roma (iv) Marianne

Note : This question is in lieu of Q 1.(b) for visually impaired candidates only

(b) Nationalism in Europe brought about the emergence of (1)

(i) The Modern States

(ii) The Nation States

(iii) Multi-National Dynastic States

(iv) Alliances formed among many European States

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(c) Who among the following was a well known pioneer of mass production of cars? **1**

(i) Jamsetji Tata (ii) G.D. Birla
(iii) David Jones (iv) Henry Ford

(d) The decision-making in the IMF and the World Bank is controlled by **1**

(i) The Asian-African bloc
(ii) Western industrial powers and the US's right to veto over key IMF and World Bank decisions
(iii) All the member-nations of these two banks
(iv) A majority vote by all the nations

(e) Which of the following is the most abundantly available fossil fuel in India? **1**

(i) Biogas (ii) Firewood
(iii) Coal (iv) Petroleum

(f) Rice is a subsistence crop in Odisha; in which of the following states is rice a commercial crop? **1**

(i) West Bengal and Bihar (ii) Punjab and Haryana
(iii) Jammu and Kashmir (iv) Tamil Nadu and Kerala

(g) Manufacturing is the process of **1**

(i) producing goods in large quantity
(ii) producing goods by hands
(iii) producing goods without adding value
(iv) none of the above

(h) The ratio between the actual distance on the ground and the distance shown on the map is called a **1**

(i) distance (ii) direction
(iii) scale (iv) cardinal point

(i) Which of the following statements are true regarding multi-party system? **1**

I. The supporters of this system believe that this prevents dangers of fragmentation and the government can run smoothly.
II. This system is cumbersome and leads to political instability.
III. This system do not permit competition.
IV. This system is healthy for a multi-religious and multi-lingual country.

Options:

(i) I and IV (ii) II and IV
(iii) I and II (iv) III and IV

(j) Which factor is often found missing from a non-democratic government? **1**

(i) Transparency (ii) Efficiency
(iii) Effectiveness (iv) None of these

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(k) Currency notes in India are issued by **1**

(i) UBI (ii) RBI
(iii) SBI (iv) CBI

(l) Majority of the credit needs of the poor households are met from **1**

(i) Government (ii) Self-Help Groups
(iii) Formal sources (iv) Informal sources

(m) World Consumer Rights Day is observed on **1**

(i) March 15 (ii) April 15
(iii) May 15 (iv) June 15

(n) Areni got an electric shock from a newly purchased iron. She complained to the shopkeeper immediately. Which right did she use? **1**

(i) Right to be heard (ii) Right to consumer education
(iii) Right to choose (iv) Right to safety

(o) Nagaland covers an area of **1**

(i) 15,579 sq. km (ii) 15,759 sq. km
(iii) 16,579 sq. km (iv) 16,759 sq. km

(p) Where is the Nagaland Mini Tool Room and Training Centre (NMTTC) under the Department of Industries and Commerce located? **1**

(i) Kohima (ii) Mokokchung
(iii) Mon (iv) Dimapur

Answer the questions in about 20-30 words :

2. Who was considered the soul of Italian unification? Why? **1+1=2**

3.**a.** What was the significance of the Lahore Session of the Congress held in December 1929? **2**

Or

b. When and why was the Inland Emigration Act passed by the British in India? **(**1+1=2)

4.**a.** Classify industries on the basis of capital investment. **2**

Or

b. Write any two problems of pipeline transportation.

5. Differentiate between national parties and state parties. **2**

6. What should be the most basic outcome of democracy? **2**

7. Give two reasons for steady decline in sex ratio in India. **2**

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8.**a.** What is meant by modern consumers on the basis of nature of consumption?

Or **2**

b. Mention any two duties of consumers while purchasing goods.

9. Why is floriculture one of the most interesting activities in Nagaland? **2**

Answer the questions in about 50-70 words:

10.**a.** What are the consequences of the Austro-Hungarian Dual Monarchy?

Or **4**

b. What actions did France take to consolidate her position in Indochina?

11.**a.** Briefly explain any four causes of land degradation.

Or **4**

b. 'Biogas is considered as an ideal domestic fuel'. Give four reasons in support of the statement.

12.**a.** Mention any four features of local self-government.

Or **4**

b. Briefly explain any four functions which political parties perform in a democracy.

13. Read the source/passage given below and answer the following questions that follows:

Today, Indian agriculture finds itself at a crossroads. To make agriculture successful and profitable, proper thrust should be given to the improvement of the condition of marginal and small farmers. The green revolution promised much. But today it's under controversies. It is said that it has triggered the vanishing of biodiversity, drying up of aquifers and is resulting in land degradation due to overuse of chemicals and exploitation. The keyword today is "gene revolution", which includes genetic engineering. Organic farming is also much in vogue today because it is practised without factory-made chemicals such as fertilizers and pesticides. A few economists think that Indian farmers have a bleak future if they continue growing food grains on the holdings that grow smaller and smaller as the population rises. India's rural population is about 600 million which depends upon 250 million (approximate) hectares of agricultural land, an average of less than half a hectare per person. Indian farmers should diversify their cropping pattern from cereals to high-value crops such as fruits, medicinal herbs, flowers, vegetables and bio-diesel crops like jatropha and jojoba. These crops need less irrigation water and give high yields. This would increase the incomes of farmers and reduce environmental degradation. However, if land is utilized to grow high-value crops instead of cereals, India would have to import food and export high value commodities.

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Questions:

i) Give one reason why Green Revolution is under controversy? **1**

ii) What is organic farming? **1**

iii) Bio-diesel crops jatropha and jojoba have been referred to as high-value crops. Why? **2**

14. Read the source/passage given below and answer the following questions that follows:

Different persons can have different development goals. What may be development for one may not be development for the other. It may even be destructive for the other. Each of us seek different things. People seek things that are important for them, i.e., that which can fulfil their aspirations or desires. In fact, at times two persons or group of persons may seek things which are conflicting. A girl expects as much freedom and opportunity as her brother and that he also shares in the household work. However, her brother may not like this. Similarly, to get more electricity, industrialists may want more dams but this may submerge the land and disrupt the lives of the tribal. They might resent this and may prefer small check dams or tanks to irrigate their land. Thus, different development needs are based on their particular life situations.

Besides seeking more income, one way or the other, people also seek things like equal treatment, freedom, security and respect of others. In fact, in some cases, these may be more important than income or more consumption because material goods are not all that you need to live. Money or material things that one can buy is one factor on which our life depends. But the quality of our life also depends on non-material things like friendship, honesty, job security, etc. Hence, the development goals that people have are not only about better income but also about other important things in life.

Questions:

i) Why do people have different ideas of development? **1**

ii) Cite an example of how development can be conflicting. **1**

iii) How can we say that people look at a mix of goals for development? **2**

15. On the given political map of India, four features A, B, C, D have been indicated. Identify these features with the help of the information mentioned below and write their correct names against the given letters. **4**

Faridabad Thermal Power Station
Rourkela iron and steel plant
Area of black soil
Maize producing area

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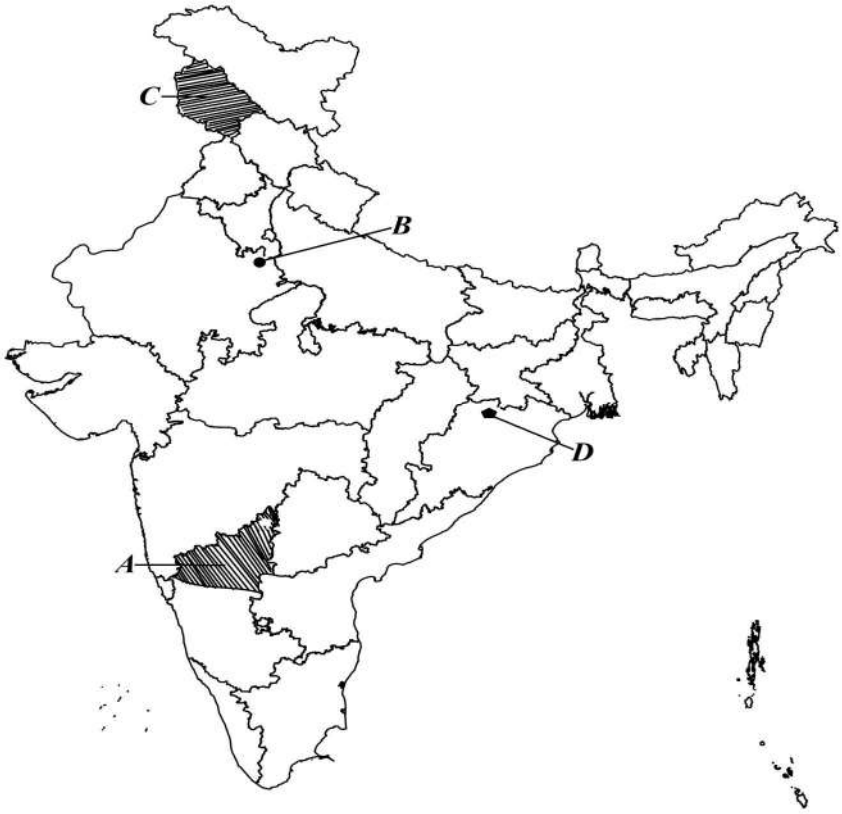

Note : The following questions are for visually impaired candidates only in lieu of Q 15.

i) What is a mineral? (1)
ii) Where is Tarapur nuclear power station located? (1)
iii) Name the two main fibre crops of India. (1)
iv) Which city is called the 'Silicon Valley of India'? (1)

Answer the questions in about 80-100 words:

16.**a.** Briefly explain the role of religious groups in the development of anti-colonial feelings in Vietnam.

Or **6**

b. Explain any six impact of globalization.

17.**a.** Mention any six main features of communalism.

Or **6**

b. Mention any six features of federalism.

18.**a.** Write a note on primary sector and its various activities.

Or **6**

b. Describe the functioning of Self-Help Groups in India.

19.**a.** Give an account on the flora and fauna of Nagaland.

Or **6**

b. Give an account on the transport and communication system of Nagaland.

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Total number of printed pages : 3 *NB-T/FIT/1*

2024

FOUNDATION OF INFORMATION TECHNOLOGY

Total marks : 70 Time : 3 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 32 questions.

iv) Internal choice have been provided in some questions.

v) Marks allocated to every question are indicated against it.

vi) Write the correct question number in your answer sheet to indicate the option being attempted.

N.B: Check to ensure 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. Website is a collection of _____. **1**
   (a) audio files (b) video files
   (c) image files (d) html files

2. A sound card is used to _____. **1**
   (a) reduce sound (b) process data
   (c) amplify data (d) produce graphics

3. What is the best MS-Access object for an invoice one can mail to customers? **1**
   (a) A report (b) A form
   (c) A table (d) A query

4. _____ arise when incomplete changes are applied to the information stored in the database. **1**
   (a) Data validation (b) Data redundancy
   (c) Data atomicity (d) Data inconsistency

5. The default value of font size is **1**
   (a) 2 (b) 3
   (c) 5 (d) 7

6. Which of the image file extensions cannot be inserted in the web page? **1**
   (a) .pcd (b) .gif
   (c) .jpg (d) .jpeg

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7. Which attribute of the <IMG> tag allows one to display a text instead of an image? **1**
   (a) Image (b) src
   (c) Border (d) alt

8. Which of the following control allows the user to select multiple values? **1**
   (a) Menu control (b) Checkbox control
   (c) Frame (d) Radio button

9. The distance between cell borders and the content within is defined by **1**
   (a) Cell spacing (b) Cell padding
   (c) src (d) link

10. The act of breaking into a computer and/or network is **1**
    (a) Spam (b) Attachments
    (c) Cracking (d) Hacking

Answer the following questions in about 10-20 words:

11. What is Boolean logic? **2**
12. What is video conferencing? **2**
13. Define Text. **2**
14. What are field properties? **2**
15. Write any two benefits of setting a primary key in a table? **2**
16. What is the difference between title and heading tag? **2**
17. What are attributes? **2**
18. What is the use of command bgcolor in HTML? **2**
19. How is it possible to label the image on the web page? **2**
20. What is the purpose of name attribute of <a> tag? **2**
21. What is the title attribute of < a > tag used for? **2**

Answer the following questions in about 20-30 words:

22. **a.** Explain the term HTTP. Why is it required?

    Or **3**

    b. Explain any three major types of software that can be downloaded from the internet.

23. Explain the different elements of a table. **3**

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24. **a.** Explain any three properties of data validation.

Or **3**

b. Explain the three key features of MS-Access.

25. What is the difference between an ordinary Notepad document and HTML document? **3**

26. **a.** Distinguish between Table Heading and Table Row.

Or **3**

b. Distinguish between Colspan and Rowspan attributes.

27. How can one insert audio and video in an html file? **3**

Answer the following questions in about 50-70 words:

28. **a.** What is FTP? How does it help on the internet?

Or **4**

b. What is LAN? Explain any three elements of LAN.

29. Explain any four operations that can be performed on database. **4**

30. What are comments? Write three simple rules for writing comments. **4**

31. **a.** How can one create radio buttons and drop-down list? Explain.

Or **4**

b. What is a frame? Explain any three attributes of <frame> tag.

32. **a.** Explain any four methods to secure a computer from the internet threats.

Or **4**

b. Define spyware. Explain any three spywares.

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Total number of printed pages : 7 *NB-T/MS/1*

2024

MUSIC

Total marks : 70 Time : 3 hours

General instructions:

i) *Approximately 14 minutes is allotted to read the question paper and revise the answers.*

ii) *All questions are compulsory.*

iii) *The question paper consists of 32 questions.*

iv) *Marks allocated to every question are indicated against it.*

v) *Write the correct question number in your answer sheet to indicate the option being attempted.*

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

SECTION - A : (Ethnic Music)

1. In construction of bamboo trumpet, the bamboo should have : **1**
   a) 2 nodes b) 4 nodes
   c) 6 nodes d) 8 nodes

2. Nagas produce unique and characteristically beautiful : **1**
   a) earthy sound b) melodious sound
   c) sweet sound d) beautiful sound

3. Nagaland is a land of folklore passed down through : **1**
   a) time immemorial b) artistic expression
   c) oral tradition d) found objects

4. Write a brief note on the drum. **2**

5. Write notes on **any two** of the following: **2½+2½ =5**
   a) The bamboo flute b) Cup violin
   c) Trumpet d) Bamboo mouth organ

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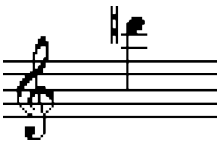
SECTION - B : (Western Music)

6. Name the given note : **1**



a) C♯ b) E♯ c) D♯ d) F♯

7. In the compound time signature, the beats in the bar divide easily into : **1**

a) two equal parts b) three equal parts
c) four equal parts d) five equal parts

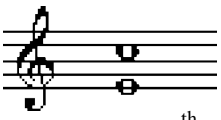
8. Which of the following is not correctly grouped ? **1**

a) b) c) d)

9. Which minor key has 2 (two) sharps in its key signature ? **1**

a) B minor b) D minor
c) F♯ minor d) E minor

10. Identify the given interval. **1**



a) major 7th b) minor 7th c) major 6th d) minor 6th

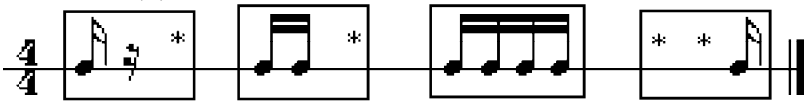
11. On what degree of the scale is the dominant triad built ? **1**

a) 2nd degree b) 4th degree c) 5th degree d) 6th degree

12. The word that tells musicians to sing or play sweetly : **1**

a) dolce b) marziale c) vivo d) tranquillo

13. Write correctly grouped quaver or semiquaver rests below the asterisks (*) . **½x4=2**



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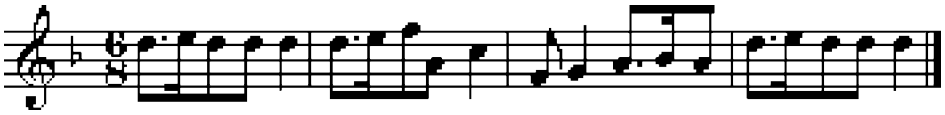
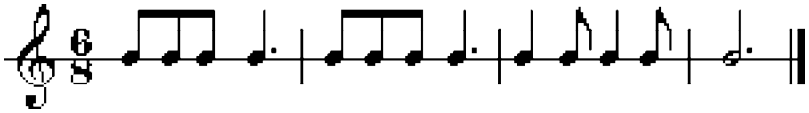
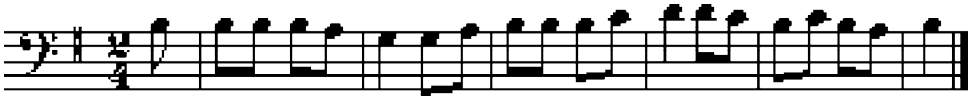
14. The following music contains mistakes in the grouping of notes.
Write it out correctly. **2**



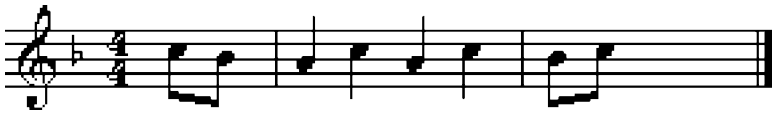
15. Write a tune for flute using the first five degree of the scale in G major to the given rhythm. Use a key signature and finish on the tonic. **2**



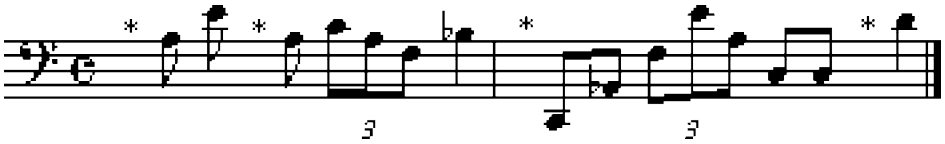
16. a) Write the tonic in the last bar to agree with the anacrusis . **1x2=2**



b) Give rests in the last bar to agree with the anacrusis.



17. Add crotchet or quaver rests in the places marked by an asterisk (*) to complete the bars. Use brackets where necessary . **½x4=2**

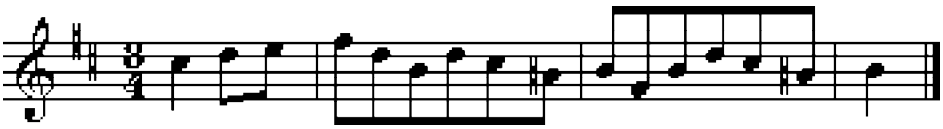


18. Write the following arpeggios ascending on the treble clef with minim. Use key signatures. **½x4=2**

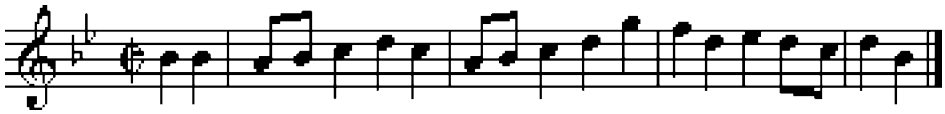
a) A minor b) F major c) E minor d) B minor

19. Work out the keys of the following : **1x2=2**

a)



b)



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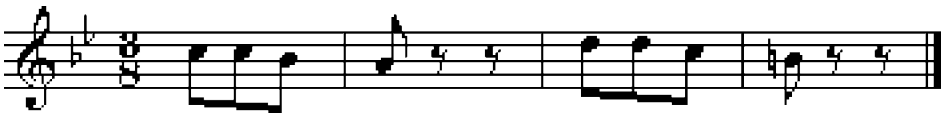
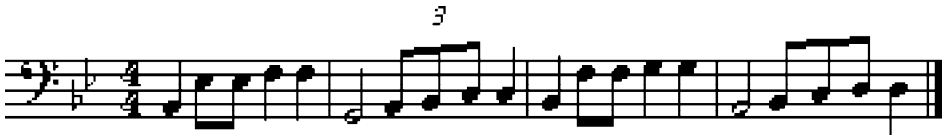
20. Use brackets to show the sequence and label it real or tonal. **1x2=2**

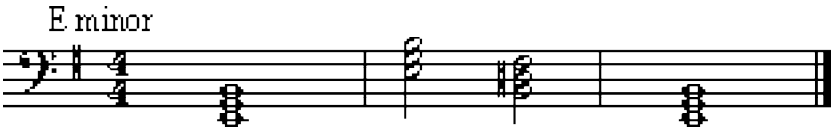
a)



b)

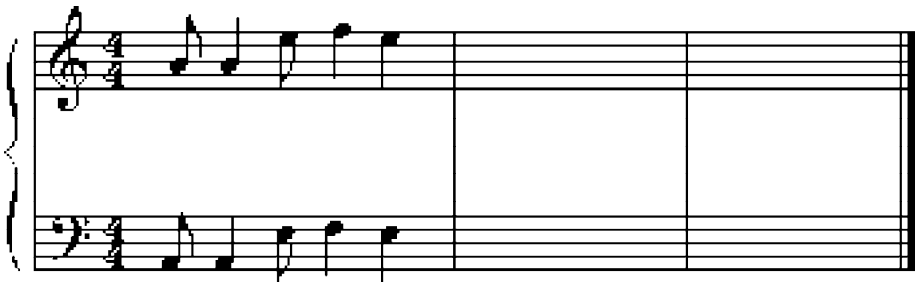


21. Label the triads with roman numerals and chord symbols to show the chord progression. **2**

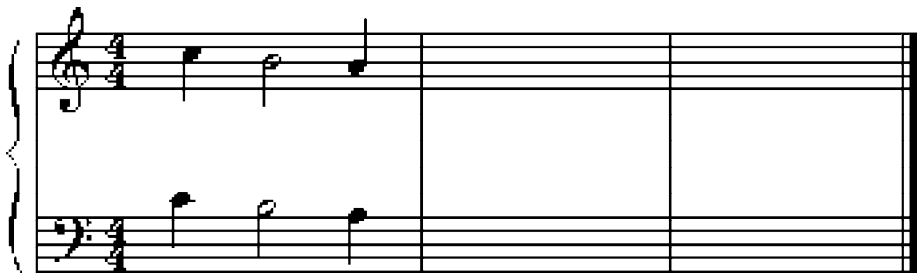


22. Write two more repeats of these bars to make ostinati that moves in similar motion. **1x2=2**

a)

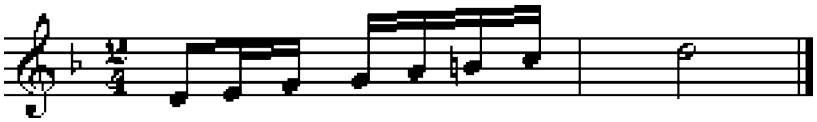


b)

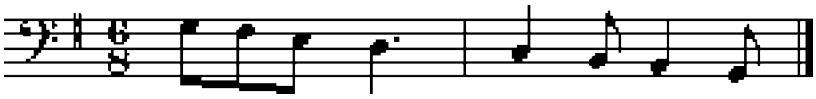


23. Label these scales . **1x2=2**

a)



b)



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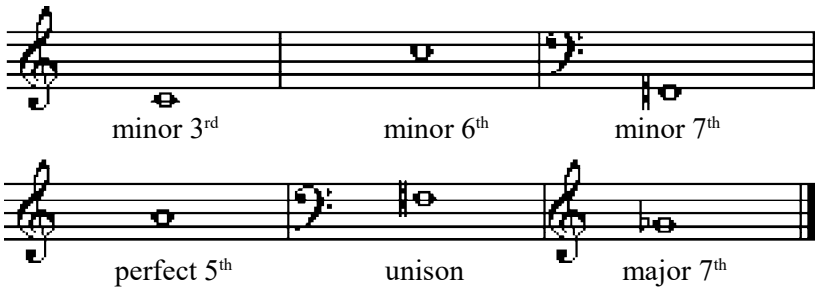
24. Write triads on the tonic and dominant degree of the E harmonic minor scale using semibreve and label with chord symbols and roman numerals in the treble stave, ascending. Use key signature. **3**

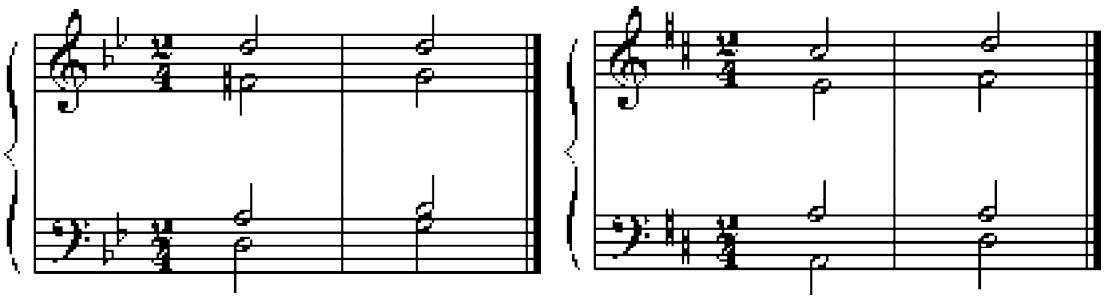
25. Build the correct interval above each note. **½x6=3**



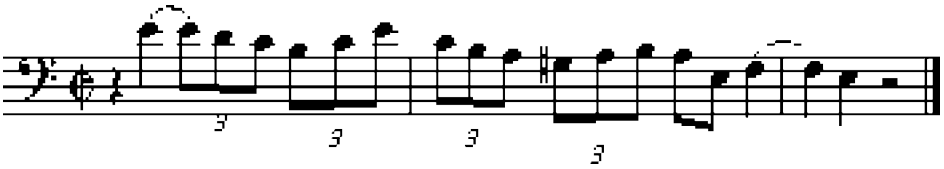
26. Using minims, write a 4-part chord (SATB) using the chord of the given keys as directed . **1½x2=3**

a) D minor b) B♭ major

27. Identify the cadences and label them with correct roman numerals . **1½x2=3**



28. a) Transpose the given tune up an octave into the treble clef to make them suitable for a violin or flute to play . **1½x2=3**



b) Transpose the given tune down an octave into the bass clef to make them suitable for a cello or bassoon to play .

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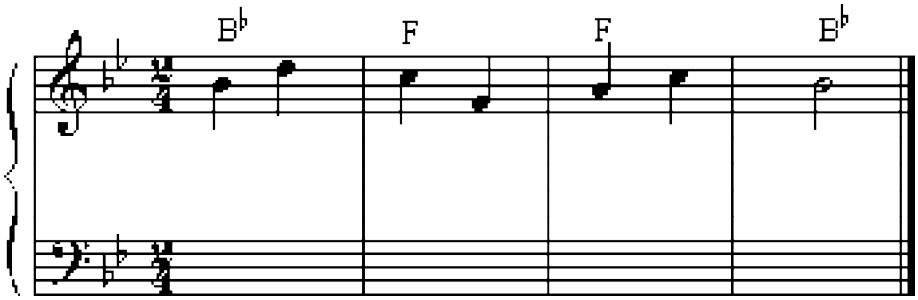
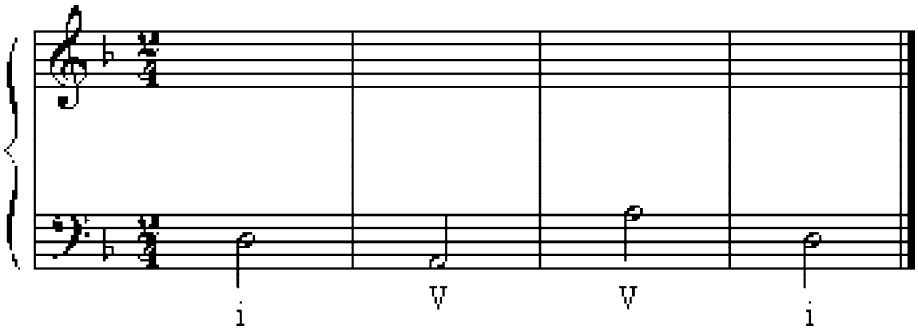
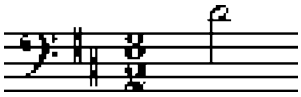
29. a) Use the root of each triad shown by the chord symbols to write a bass line . **1½x2=3**



b) Use notes from the tonic or dominant triads shown by the roman numerals to write a tune above the bass line .



30. a) Using minims, write a broken chord using B minor tonic triad (going down) . Use pattern of three notes each time. Finish on the first D below the stave . **1½x2=3**



b) Using quaver triplets, write a broken chord using the tonic triad, going up. Use pattern of three notes each time. Finish on the first C above the stave .

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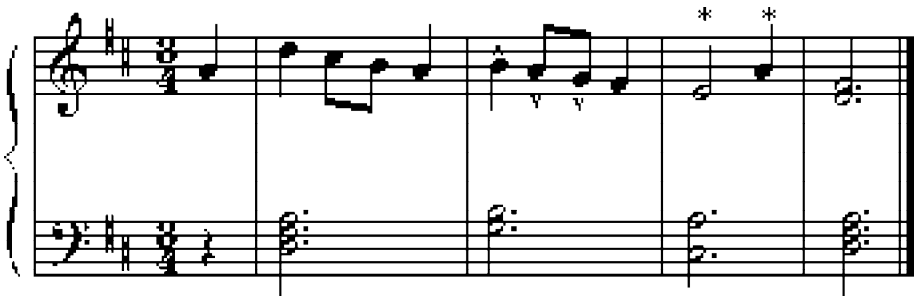
31. Construct the following scales with minim notes. Use its key signature and necessary accidentals. **1x5=5**
   a) D major descending, treble clef.
   b) G harmonic minor ascending, treble clef.
   c) C major ascending and descending, bass clef.
   d) E melodic minor descending, bass clef
   e) B natural minor ascending, treble clef.

32. Look at the following music and answer the questions that follow. **1x5=5**



   a) Identify the key of this piece.
   b) Name the interval between the two notes marked with asterisks (*) in bar 3.
   c) Is the sequence in bars 1 & 2 real or tonal ? (treble clef)
   d) What is the name of the musical symbol used in bar 2 ?
   e) What is the music word for music that does not start on the first beat of the bar?

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Total number of printed pages : 3 *NB-T/HS/1*

2024

HOME SCIENCE

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.

iii) The question paper consists of 32 questions.

iv) Marks allocated to every question are indicated against it.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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. The first emotion that baby experience is **1**
   (a) anger (c) fear
   (b) happiness (d) disgust

2. In ____ play, the enjoyment is derived from the activities of others. **1**
   (a) passive (c) natural
   (b) exploratory (d) creative

3. Low RBC count or immature RBC causes **1**
   (a) rickets (c) anaemia
   (b) goitre (d) night blindness

4. Which vitamin helps in the formation of collagen present in between the cells? **1**
   (a) Vitamin A (c) Vitamin C
   (b) Vitamin B (d) Vitamin D

5. Potato, onion and garlic should be kept in dark place to avoid **1**
   (a) rotting (c) discolouration
   (b) fermentation (d) germination

6. Which of this is not a human resource? **1**
   (a) knowledge (c) property
   (b) attitude (d) interest

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7. Which Right helps the consumer to get compensation against unfair trade practices? **1**
   (a) Right to safety (c) Right to select
   (b) Right to be heard (d) Right to seek redressal

8. _____ ensures recycling and controls of pollution in the environment. **1**
   (a) Woolmark (c) Agmark
   (b) Ecomark (d) ISI

9. Which lines suggest life and activity in the elements of art? **1**
   (a) Vertical lines (c) Diagonal lines
   (b) Horizontal lines (d) Curved lines

10. Starch is used as a stiffening agent for which fabric? **1**
   (a) nylon (c) wool
   (b) cotton (d) silk

Answer the following questions in 20-30 words :

11. What are the two types of motor development? **2**

12. Differentiate between parallel play and associative play. **2**

13. 'Milk is considered to be a complete food', why? **2**

14. Mention two points on proper disposal of refuse in the kitchen. **2**

15. How is selection of cereals and pulses done? **2**

16. Name the main resources required for the following activities: **2**

    i) Running ii) Buying a car

17. What are community resources? Give two examples. **2**

18. Write two ways of supplementing family income. **2**

19. What are consumer aids? Name any two consumer aids. **2**

20. How is continuous rhythm achieved in the arrangement of accessories? **2**

21. Name two chemicals used for removing stains. **2**

22. What does the following symbol on readymade garment indicate? **2**

    a) b)

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Answer the following questions in 40-60 words :

23. Enumerate any three principles of development. **3**

24. What are the physical needs of a child? **3**

25. a) Write any three roles of books in the life of a child up to 3 years.

Or **3**

b) Write any three influences of TV on children.

26. Give any three points of differences between fat and oil. **3**

27. (a) 'Meal planning is influenced by age and occupation'. Support this statement with examples.

Or **3**

(b) Mention three measures that provide nutritious food at low cost.

28. (a) Differentiate between real direct income and real indirect income with examples.

Or **3**

(b) Write any three reasons why economic security is important in saving.

29. (a) What is adulteration? Explain its two types.

Or **3**

(b) How does a manufacturer or seller lure the consumer to buy their products?

Answer the following questions in 80-100 words :

30. (a) What are the sources of iodine? Enumerate any three diseases caused by deficiency of iodine.

Or **5**

(b) Why is vitamin B known as B-complex? Discuss the function of vitamin B_1 (Thiamine) in our body.

31. (a) Name the principles of art. Explain any two principles of art in detail.

Or **5**

(b) Explain the types of flower arrangement.

32. (a) Why is proper storage of clothes important? What points should be considered while storing cotton, silk and woolen clothes?

Or **5**

(b) Give five differences between soap and detergent.

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Total number of printed pages : 4 *NB-T/BK/1*

2024

BOOK-KEEPING & ACCOUNTANCY

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 28 questions. All questions are compulsory.

iii) Internal choice has been provided in some questions.

iv) Marks allocated to every question are indicated against it.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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. The traditional name for income statement is **1**
   (a) trial balance (b) trading account
   (c) trading and profit & loss account (d) final accounts

2. Net profit is ascertained from **1**
   (a) balance sheet (b) profit & loss account
   (c) trading account (d) none of these

3. The bank A/c which does not carry any interest is **1**
   (a) current A/c (b) savings bank A/c
   (c) fixed deposit A/c (d) recurring A/c

4. A bank reconciliation statement can be prepared with the balance of **1**
   (a) cash book (b) pass book
   (c) cheque book (d) both cash book and pass book

5. Interest paid or allowed by the bank but not yet recorded in the cash book will **1**
   (a) increase amount in the pass book (b) increase amount in the cash book
   (c) decrease amount in the pass book (d) none of these

6. A bill dated 1st January, 2023 is payable three months after date. The maturity date of the bill will be **1**
   (a) 2nd April, 2023 (b) 4th April, 2023
   (c) 3rd April, 2023 (d) 1st April, 2023

7. The person to whom the amount of a bill is payable is called as **1**
   (a) drawer (b) drawee
   (c) maker (d) payee

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8. Errors committed due to incomplete knowledge of accounting is **1**
   (a) clerical error (b) compensating error
   (c) errors of principle (d) errors of omission

9. Depreciation is a/an **1**
   (a) loss (b) asset
   (c) income (d) valuation

10. The method under which the value of assets cannot be written down to zero level is **1**
   (a) fixed installment method (b) straight line method
   (c) depreciation on original cost (d) reducing installment method

Answer the questions in about 20-30 words:

11. What is a trading account? **2**

12. What is a credit card? **2**

13. Write two special features of fixed deposit account. **2**

14. Briefly explain a sliding figure error. **2**

15. What is suspense account? **2**

16. Define depreciation according to Spicer and Peglar. **2**

Answer the questions in about 30-50 words:

17. Explain any three objectives of profit and loss account. **3**

18. Mention and explain any three points to be considered while preparing final accounts. **3**

19. Explain the cases under which the bank balance will be treated as plus balance. **3**

20. Write short notes on: 1 ½ x 2 = **3**
   a) days of grace b) discounting of the bill

21. State any three special features of depreciation. **3**

22. The original cost of furniture was ` 9,000 and the amount of depreciation under diminishing balance method was calculated to be ` 900 during the first year. Find the rate of depreciation. Also calculate the value of depreciation for the 2nd year. **3**

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Answer the questions in about 70-100 words:

23. a. Explain any five difference between profit and loss A/c and balance sheet.

Or **5**

b. Prepare trading, profit and loss account and balance sheet from the following trial balance of Wekong Timber Ltd. as on 31st March, 2022.

Particulars	Debit Balances `	Credit Balances `
Purchases and Sales	15,750	21,000
Stock	13,000	
Carriage on sales	650	
Freight inward	500	
Salaries and wages	980	
Cash	6,600	
Capital		20,000
Bills receivable/Bills payable	4,220	2,700
Drawings	2,000	
	43,700	43,700

Closing stock was estimated at ` 12,000.

24. a. Explain any three advantages and two disadvantages of opening a current A/c.

Or **5**

b. Mention and explain any five different types of bank.

25. a. Explain the needs and importance of bank reconciliation statement.

Or **5**

b. Prepare a bank reconciliation statement as on 31st March, 2022.

i) The bank column of its cash book showed a debit balance of ` 1,60,000
ii) Cheques deposited but not credited to bank ` 50,000
iii) Cheque issued but not presented for payment ` 42,350
iv) Cheque received by the bank directly from the trade debtors ` 73,000
v) Insurance premium paid by the bank as per standing instruction but not yet recorded in the cash book ` 10,000.

26. a. Write and explain any five features of bills of exchange.

Or **5**

b. On January 1, 2020, Virat sold goods to Rahul for ` 4,000. On the same date, Virat drew a bill on Rahul for ` 4,000 due after three months. Rahul accepted the bill and returned it to Virat who retained the bill up to the due date. Rahul met the bill on the due date.

Pass journal entries in the books of both the parties.

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27. a. Explain any five effects of errors and their rectification on profit and loss A/c and balance sheet.

Or **5**

b. An accountant found the following errors of the previous year after preparing the financial accounts during the current year.

i) Purchases from Kenny was not awarded in the books ` 200

ii) Sales to Kavi amounting to ` 3,000 was wrongly passed through the sales book with ` 300

iii) Wages paid to David was debited to David with ` 1,000

iv) Repairs to machinery amounting to ` 1,800 was omitted.

Pass necessary journal entries to rectify these errors.

28. a. Mention and explain any five factors affecting the amount of depreciation.

Or **5**

b. Dayal and Son's purchased a machinery for ` 14,00,000 on 1st October 2020 and spent 1,00,000 on installation. Depreciation was to be provided @10% by written down value method.

Prepare machinery account for 3 years assuming the books are closed on March 31st every year.

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Total number of printed pages: 3 *NB-T/EE/1*

2024

ENVIRONMENTAL EDUCATION

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 32 questions. All questions are compulsory.

iii) General option questions are provided in 5 and 6 marks questions.

iv) Marks allocated to every question are indicated against it.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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

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

(i). The practice of growing crops between rows of trees is called
(a) Agro forestry (b) Urban forestry
(c) Commercial forestry (d) Forestry

(ii). The second most important necessity after air to sustain life is
(a) Surface water (b) Pure water
(c) Underground water (d) Distilled water

(iii). Nests of predacious ants are placed to protect the crop from insects on
(a) Papaya trees (b) Lemon trees
(c) Orange trees (d) Acacia trees

(iv). Sugar industry, paper industry, cement industry cause a lot of
(a) Soil pollution (b) Thermal pollution
(c) Noise pollution (d) Air pollution

(v). Any unwanted or unpleasant sound that causes discomfort is
(a) Noise (b) Music
(c) Rhythm (d) Wave

(vi).Forests are the lifeline of
(a) Rural people (b) Tribal people
(c) Urban people (d) Semi-urban people

(vii). Which of the following is not a cause of natural disaster?
(a) Landslide (b) Earthquake
(c) Fire caused by short circuit (d) Cyclone

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(viii). For environmentally safe products, consumers should look for
(a) Hall mark (b) Agmark
(c) ISI mark (d) Ecomark

(ix). Trout may become extinct due to
(a) Climate change (b) Sea water
(c) Salt water (d) Hunting

(x). Chipko movement was a movement for the protection of
(a) Animals (b) Trees
(c) Water (d) Natural gas

Answer the following questions in one word or one sentence not exceeding 15 words:

2. Write one importance of planting trees in our houses. **1**

3. What is electronic waste (E-waste)? **1**

4. Define food adulteration. **1**

5. Name any two factors responsible for degradation and loss of wildlife. **1**

6. Write the full form of CNG. **1**

7. Write one advantage of wind energy. **1**

Answer the following questions in about 20 - 30 words:

8. Write two importances of coral reefs. **2**

9. Mention any two measures to prevent poaching and hunting. **2**

10. Define soil pollution. **2**

11. Give any two reasons for energy crises. **2**

12. What is climate change? **2**

13. Mention any two man made factors of landslides. **2**

14. Write any two human activities causing floods. **2**

15. Write any two importance's of sacred groves. **2**

Answer the following questions in about 30 - 50 words:

16. Write any three disadvantages of shifting cultivation. **3**

17. Write any three popular indigenous practices in our country for nature preservation. **3**

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18. Mention three effects of air pollution on human beings. **3**

19. Name any three sources of water pollution. **3**

20. Mention any three reasons behind depletion of forest cover. **3**

21. List any three problems faced by displaced people related to resettlement and rehabilitation. **3**

22. Write any three purposes of water harvesting. **3**

Answer *any three* from the following questions in about 50-60 words:

23. State five reasons why conservation of forest is essential. **5**

24. Mention five benefits of social forestry. **5**

25. Write five effects of cyclones. **5**

26. Mention any five mitigation measures for fire. **5**

27. List any five consumers' duties for making correct choices while buying different items. **5**

28. 'United Nations has guaranteed eight consumer rights to citizens of all Nations' Mention any five consumer rights. **5**

Answer *any two* of the following questions in about 70-100 words:

29. Write any six advantages of rainwater harvesting. **6**

30. Mention any six benefits of biofertilizers. **6**

31. Write any six effects of noise pollution on human health. **6**

32. Mention any six measures to control noise pollution. **6**

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Total number of printed pages : 2 *NB-T/IT(V)/1*

2024

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.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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. Which of the following correctly explains olfactics?
(a) Sense of seeing (b) Sense of hearing
(c) Sense of touch (d) Sense of smell

ii. Emotional, mental, physical and social response to any perceived threats and demands is known as
(a) Positive response (b) Stress
(c) Pressure (d) Passion

iii. Which of the following functions of an entrepreneur involves employment, development and compensation of employees?
(a) Personnel (b) Production
(c) Marketing (d) Accounting

iv. SDG stands for
(a) Safe development goals (b) Social development goals
(c) Sustainable development goals (d) Short term development goals

v. To undo the most recent change in a document, the short cut key is
(a) Ctrl+A (b) Ctrl+X
(c) Ctrl+Y (d) Ctrl+Z

vi. The libre office writer provides two ways to crop an image, the crop tool and the
(a) Crop page (b) Edit page
(c) Tool bar (d) Task bar

vii. The tools> protect document> sheet can be used for
(a) Sharing sheet with others (b) Hiding the sheet
(c) Protecting the sheet (d) Consolidating the sheet

viii. Which of the following bar provides information about the spreadsheet and ways to change its features?
(a) Tool bar (b) Title bar
(c) Formula Bar (d) Status bar

ix. Which of the following is a collection of related records?
(a) Data (b) Fields
(c) Tables (d) File

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x. What type of hazards are caused due to repetitive movements, improper set up of work stations?

(a) Biological hazards (b) Chemical hazards
(c) Ergonomic hazards (d) Physical hazards

Answer the following questions in one word or one sentence:

2. What is non verbal communication? **1**
3. What is self awareness? **1**
4. Who is an entrepreneur? **1**
5. Define sustainable development. **1**
6. What are styles? **1**
7. What is the short cut key to open function wizard key in calc? **1**
8. What is database management system (DBMS)? **1**
9. Write one possible cause of fire. **1**

Answer the following questions in 20-50 words:

10. What is an operating system? State one function of an operating system. **1+1=2**
11. Write the steps to insert image in insert image dialog box. **2**
12. Write the steps of resizing an image. **2**
13. Differentiate between relative and absolute hyperlinks. **2**
14. Write two aspects of scenario that can be altered independently. **2**
15. Write any two uses of database management system. **2**
16. What is a foreign key? **2**
17. What is a hazard? Give an example. **1+1=2**

Answer the following questions in 60-100 words:

18. Explain briefly the four settings for positioning image within a text. **4**
19. What is spreadsheet? Briefly explain the three data types of spreadsheet. **1+3=4**
20. (a) Explain any four advantages of a database.

Or **4**

(b) Write the steps for changing label of a form.

21. (a) What are safety hazards? Write three causes of common workplace hazards.

Or **1+3=4**

(b) List any four fire safety evacuation plans. (4)

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2024

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.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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. What kind of software seems to be useful in the beginning, but will cause damage to the computer once installed?

(a) Virus (b) Malware
(c) Trojan Horse (d) Spam

ii. It is the most important skill to keep one's actions on track for the successful completion of the task at hand.

(a) Discipline (b) Organizational skills
(c) Multitasking ability (d) Communication skills

iii. Interacting with one another in a consistent manner comes under the primary goal of

(a) Environmental protection (b) Cultural diversity
(c) Economic growth (d) Social inclusion

iv. Which of the following is **not** a tool to get feedback from customers?

(a) Feedback forms (b) Interviews
(c) Questionnaires (d) Reporting hierarchy

v. The host-guest relationship is referred to as

(a) relationship toll (b) customer management
(c) hospitality (d) CRM

vi. The modern business protocol is seen as

(a) gender neutral (b) gender equality
(c) gender sensitivity (d) gender disparity

vii. Works of literature, drama, music or art as well as cinematic and audio-visual works are all protected by

(a) patent (b) copyright
(c) trademarks (d) trade secrets

viii. It often refers to the policies and practices used during food production, packing, transportation and serving.

(a) Food safety (b) Food protection
(c) Food hygiene (d) Food sanitation

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ix. Hazards that causes falls, slips and trips are considered as
(a) physical hazards (b) safety hazards
(c) ergonomic hazards (d) accidental hazards

x. A printed list of many dishes that may be ordered at a restaurant is known as
(a) booking (b) tip
(c) menu (d) toppings

Answer the following questions in one word or one sentence:

2. State any two factors considered to be sources of stress in modern times. **1**
3. What is a folder? **1**
4. Define customer feedback. **1**
5. What is sexual harassment? **1**
6. What is meant by copyright infringement? **1**
7. Mention any two guidelines for maintaining floor safety. **1**
8. Write two main principles of sustainable development. **1**
9. List any one reason to justify why English language is essential in hospitality industry. **1**

Answer the following questions in 20-50 words:

10. Briefly explain any two factors that causes communication barriers. **2**
11. What are Standard Operating Procedures? Why is it needed in restaurant? **2**
12. Write any two myths about entrepreneurship. **2**
13. Who is a customer? Write one reason why customer is important in hospitality industry. **1+1=2**
14. Suggest two ways to accomplish workplace gender equality. **2**
15. Differentiate between patent and copyright. **2**
16. Mention any two ways of handling waste bin or trash can. **2**
17. What are physical hazards? Give two examples. **1+1=2**

Answer the following questions in 60-100 words:

18. a) Write any four hospitable conducts required while dealing with a guest.

Or **4**

b) Write any four facilities that should be provided by the companies for the safety of female employees to travel at night.

19. a) Explain the LAST compliant plan to handle and control a complaint.

Or **4**

b) Explain briefly any four benefits of effective communication among colleagues in hospitality industry.

20. What is Intellectual Property Right (IPR)? State any three objectives of IPR. **1+3=4**

21. Mention any four key duties of the Food Safety and Standards Authority of India (FSSAI). **4**

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Total number of printed pages : 2 *NB-T/R(V)/1*

2024

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.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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. The only people who often interact directly with customers are
a) wholesalers b) importers
c) retailers d) distributors

ii. Stock should be maintained so as to mitigate uncertainties in
a) wholesale operation b) supply or demand
c) market operation d) store operation

iii. To remain competitive, it is essential to provide high quality service, trustworthiness and
a) transparency b) commitment
c) credibility d) compatibility

iv. The process of bringing products from a retailer or other point of sale to the customers' door is known as
a) transportation b) delivery
c) business d) retailing

v. Which of the following is **not** a cause of accident in retail stores?
a) Even floor conditions b) Leaky ceilings
c) Narrow walkways d) power short-circuit

vi. An agreement made between two parties is also known as
a) reconciliation b) cooperation
c) contract d) commitment

vii. Public signs and visual symbols are part of
a) written communication b) verbal communication
c) visual communication d) non-verbal communication

viii. It is generated by pent-up worries, frustration and apprehension.
a) Survival stress b) Environmental stress
c) Work-related stress d) Internal stress

ix. What are small pictures on the desktop called?
a) Icons b) Wallpaper
c) Taskbar d) Notification bar

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x. Which of the following is **not** a commercial function of entrepreneur?
   a) Production b) Policy making
   c) Finance d) Accounting

Answer the following questions in one word or one sentence:

2. What is batch control? **1**
3. State any two factors that affects loading and unloading of merchandise. **1**
4. What is accident? **1**
5. What is constructive feedback? **1**
6. Mention any two principles of effective communication. **1**
7. Write any two types of self-awareness. **1**
8. What is a file? **1**
9. Who is an entrepreneur? **1**

Answer the following questions in 20-50 words:

10. Write any two duties and responsibilities of the store operations assistant. **2**
11. Define the term 'retail operation'. Mention any two retail activities. **1+1=2**
12. Mention any two problems associated with retail transportation. **2**
13. Write two manners on how retail bagging is done. **2**
14. What is workplace violence? Suggest one measure to prevent violence, shoplifting and robbery at workplace. **1+1=2**
15. Briefly explain any two importance of feedback. **2**
16. What is challenging work environment? State any one suggestion to inspire an employee amid challenging workplace condition. **1+1=2**
17. Mention two main principles of sustainable development. **2**

Answer the following questions in 60-100 words:

18. a) What is stock control? Briefly explain any three techniques of stock control. **1+3=4**

Or

b) Briefly explain any four points that need to be considered while responding to customer queries and feedback. (4)

19. a) Explain four rules regarding delivery of goods.

Or **4**

b) Explain the procedures of delivery of items in the case of store shipping.

20. Explain four common safety concerns in retail store. **4**
21. 'Without teamwork, a business or organization won't be able to meet its goals'. Justify the statement. **4**

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2024

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.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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. It is a complex mixture of gestures, movement, posture and tone of voice.
   a) Kinesics b) Proxemics
   c) Haptics d) Body language

ii. Norton, AVG and Kaspersky are examples of
   a) antivirus b) system software
   c) operating system d) windows firewall

iii. Sustainable development requires judicious use of
   a) human resources b) physical resources
   c) natural resources d) man-made resources

iv. Which of the following product is used to protect our skin from UV rays?
   a) Cream b) Sunscreen
   c) Toner d) Moisturizer

v. What is used to perform threading?
   a) Nylon thread b) Polyester thread
   c) Woollen thread d) Cotton thread

vi. Which of the following is an eyebrow shape?
   a) C shaped b) L shaped
   c) S shaped d) U shaped

vii. This type of make up usually requires minimal use of cosmetic products.
   a) Nude make up b) HD make up
   c) Matte make up d) Dewy make up

viii. Which of the following is **not** a purpose of make up?
   a) Enhance our features b) Make us happy
   c) Look beautiful d) Hide our imperfections

ix. The fastest and easiest way to increase customer loyalty in beauty and wellness industry is by improving
   a) the infrastructure b) the make up tools
   c) cosmetic products d) the customer service

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x. 'Be on time, your client's time is limited and valuable' is to do with
a) professionalism b) personal grooming
c) customer satisfaction d) customer attraction

Answer the following questions in one word or one sentence:

2. State any two key factors affecting effective communication. **1**
3. What is computer? **1**
4. Mention any two primary goals of sustainable development. **1**
5. What are the tiny holes or pores on our skin from which hair grow are known as? **1**
6. What do we use, when our skin becomes dull and dry? **1**
7. Name any two types of waxing. **1**
8. What should be applied on the face to complete the look in the process of make up? **1**
9. List any two ways to create positive impression at workplace. **1**

Answer the following questions in 20-50 words:

10. What is stress? Write two sources of stress in modern times. **1+1=2**
11. Briefly describe two advantages of pursuing entrepreneurship as a career. **2**
12. Describe two basic steps that is involved in skin care routine. **2**
13. What is waxing? State one safety tips to be followed in waxing. **1+1=2**
14. What is threading? Name any two types of threading. **1+1=2**
15. What is airbrush make up? State one way of preparing airbrush make up. **1+1=2**
16. Differentiate between HD make up and bridal make up. **2**
17. Write any two importance of etiquettes in workplace. **2**

Answer the following questions in 60-100 words:

18. (a) Explain any four skin care products.

Or **4**

(b) Explain the functions of epidermis, the top layer of the skin.

19. (a) What is bleaching? Write any three step by step procedures of bleaching. **1+3=4**

Or

(b) Write any four safety tips to be followed during threading session. (4)

20. Describe any four make up procedures. **4**
21. Define etiquette. Explain three benefits of correct etiquettes in a workplace. **1+3=4**

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Total number of printed pages : 2 *NB-T/E(V)/1*

2024

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.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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 strength of magnetic field is
(a) Volt (b) Newton per coulomb
(c) Tesla (d) Coulomb per second

ii. With the circuit, a fuse is always connected in
(a) Parallel (b) Series
(c) Both parallel and series (d) Star

iii. If the mixer grinder shuts down automatically, then it could be a problem of
(a) Loose blade (b) Crack in the jar
(c) Faulty wiring (d) Broken coupler

iv. In a microwave oven, the cooking surface is generally made up of ceramic or
(a) Enamel (b) Copper
(c) Silver (d) Glass

v. What is the safest distance to keep from all electrical panels?
(a) 3 feet (b) 4 feet
(c) 5 feet (d) 5 feet

vi. Under which type of fire does cooking oils and fats come?
(a) Type A (b) Type C
(c) Type D (d) Type K

vii. Stress generated by pent up worries; frustration and apprehension in inner self is called
(a) Internal stress (b) Survival stress
(c) Environmental stress (d) Work related stress

viii. A recycled file will get stored in which folder?
(a) Downloads (b) Document
(c) Recycle bin (d) Pictures

ix. Which of the following is not a characteristic of a successful entrepreneur?
(a) Self confident (b) Risk taking
(c) Action oriented (d) Indecisive

x. Which of the following is a primary goal of sustainable development?
(a) Making government policies (b) Economic growth
(c) School administration (d) Weather forecast

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Answer the following questions in one word or one sentence:

2. What is a motor? **1**
3. What is the basic working principle of home appliances in house hold applications? **1**
4. Name any two products with small energy rating label. **1**
5. Write any two types of operating system in computer. **1**
6. What is self awareness? **1**
7. State one myth and reality of an entrepreneur. **1**
8. What are electrical hazards? **1**
9. Write one objective of sustainable development goals. **1**

Answer the following questions in 20-50 words:

10. Differentiate between DC and AC fuses. **2**
11. Write the steps to change rotary incher switch. **2**
12. What is non verbal communication? Mention any two components of non verbal communication. **1+1=2**
13. Name any two types of juicers and write their uses. **1+1=2**
14. What is the problem if microwave appears dead? Write one factor that may cause this condition. **1+1=2**
15. What are standard operating procedures (SOP)? Name a material that can be used to remind workers of chemical hazards. **1+1=2**
16. 'Being able to act quickly in an emergency situation is paramount to an electrician's working life'. Justify the statement with two points. **2**
17. State Fleming's Right Hand Rule. **2**

Answer the following questions in 60-100 words:

18. (a) Explain briefly any two parts of motors.

    Or **4**

    (b) Explain briefly electromechanical relays and solid state relays.
19. Explain any two ways to clean mixer grinder. **4**
20. (a) Explain any four ways in which you can perform trouble shooting of micro oven.

    Or **4**

    (b) Explain any four ways to maintain microwave oven.
21. Write four ways to protect oneself from electrical hazards. **4**

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Total number of printed pages: 2 *NB-T/MSFC(V)/1*

2024

Multi Skill Foundation Course (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.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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. Mixture of cement, sand and gravels is called
(a) mortar (b) concrete
(c) ferro-cement (d) RCC

ii. What is the unit of resistance?
(a) Volt (b) Ampere
(c) Watt (d) Ohms

iii. The battery converts which of the following energy into electrical energy?
(a) Nuclear (b) Chemical
(c) Thermal (d) Mechanical

iv. The process of collecting, filtering, storing and using rainwater is known as
(a) irrigation (b) conservation
(c) percolation (d) rainwater harvesting

v. The method of growing plants without soil is called
(a) azolla (b) hydroponic
(c) aerobic (d) anaerobic

vi. Which type of blood cell is called as "soldier of the body"?
(a) White Blood Corpuscles (b) Red Blood Corpuscles
(c) Thrombocytes (d) Platelets

vii. What does the word 'Seiri' mean?
(a) Sort (b) Shine
(c) Standardize (d) Set in order

viii. According to Howard W. Johnson, which of the following is ***not*** a basic element of entrepreneur?
(a) Invention (b) Innovation
(c) Equality (d) Adaptation

ix. Negative stress is also known as
(a) survival stress (b) distress
(c) internal stress (d) work stress

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x. How many sustainable development goals were established by the United Nations General Assembly in 2015?
(a) 14 (b) 15
(c) 16 (d) 17

Answer the following questions in one word or one sentence:

2. Who is an entrepreneur? **1**
3. Define self-motivation. **1**
4. Write any one principle of sustainable development. **1**
5. What is meant by painting? **1**
6. List any two areas where contour line is used. **1**
7. Why is rainwater storage important? **1**
8. Name one method of artificial insemination. **1**
9. State any two main components of balance diet. **1**

Answer the following questions in 20-50 words:

10. What is effective communication? List any two C's of effective communication. **1+1=2**
11. Write four measures to protect computer. **2**
12. Draw the symbolic representation of the third angle projection method. **2**
13. What are welding fumes? Write one safety measure for protection against welding fumes. **1+1=2**
14. Differentiate between direct and alternating current. **2**
15. What is a pump? Write any two places where it is used. **1+1=2**
16. What is meant by irrigation? Write about any one type of irrigation. **1+1=2**
17. What are communicable and non-communicable diseases? **2**

Answer the following questions in 60-100 words:

18. Write any four characteristics of concrete cement. **4**
19 What is biogas? State any three advantages of biogas. **1+3=4**
20. (a) Briefly describe hydroponic fodder production system.
Or **4**
(b) State any four importance of nursery.
21. (a) Mention the advantages of packaged food.
Or **4**
(b) Write any four reasons on the importance of vaccination.

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Total number of printed pages : 2 *NB-T/AG(V)/1*

2024

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.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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. Which method of land is suitable for undulating land and sandy soil?
(a) Sprinkler irrigation (b) Drip irrigation
(c) Spray irrigation (d) Subsurface irrigation

ii. It is a type of micro irrigation equipment which is often used for temperature control in outdoor settings
(a) Drippers (b) Sprinklers
(c) Foggers (d) Misters

iii. The most common herbicide used in brinjal is
(a) Paraquat (b) Fluchloralin
(c) Alachlor (d) Trifluralin

iv. Which of the following is derived from tobacco plant and is used for repelling insects?
(a) Nimbolin (b) Nimbin
(c) Pyrethrum (d) Nicotine

v. Damping off is a disease of
(a) Leaves (b) Fruits
(c) Seedlings (d) Flowers

vi. Vegetables crops such as tomatoes, peppers and corn are harvested in
(a) Summer season (b) Winter season
(c) Spring season (d) Autumn season

vii. Noise, vibration, heat and other unhealthy climatic conditions are causes of
(a) Electrical hazards (b) Mechanical hazards
(c) Chemical hazards (d) Physical hazards

viii. It refers to the movement of the body or its separate parts which may be culture bound
(a) Body language (b) Proxemics
(c) Kinesics (d) Haptics

ix. The small pictures on the desktop are called
(a) Icons (b) Taskbar
(c) Wallpaper (d) Notification area

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x. Using eco-friendly materials comes under which of the primary goals of sustainable development?

(a) Economic growth (b) Environmental protection
(c) Cultural diversity (d) Social inclusion

Answer the following questions in one word or one sentence:

2. What is a fogger? **1**
3. What are pre plant herbicides? **1**
4. Name any two natural enemies to combat pests. **1**
5. State two fundamental principles of effective communication. **1**
6. What are maturity indices? **1**
7. What is hazard? **1**
8. What is an operating system in a computer? **1**
9. List any two primary goals of sustainable development. **1**

Answer the following questions in 20-50 words:

10. What is irrigation? Write one main objective of irrigation system. **1+1=2**
11. What is biological control of weeds? **2**
12. Write two differences between broadleaf and grassy weeds. **2**
13. Write the scientific names of two solanaceous crops and also name two common solanaceous vegetable diseases. **2**
14. Differentiate between climacteric and non-climacteric vegetables. **2**
15. What is stress? List two sources of stress in modern times. **1+1=2**
16. State any two common hazards at vegetable farm with examples. **2**
17. Who is an entrepreneur? State two characteristics of a successful entrepreneur. **2**

Answer the following questions in 60-100 words:

18. (a) Briefly explain any four types of micro irrigation system. **4**

Or

(b) Write any two advantages and disadvantages of micro irrigation equipments. (2+2=4)

19. (a) What are weeds? Briefly explain the annual, biennial and perennial weeds. **1+3=4**

Or

(b) Explain any four tools and equipments for insect pest and disease management operations. (4)

20. What is grading of crops? Write three advantages of grading. **1+3=4**
21. Explain any four types of hazards that occur in agricultural works. **4**

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Total number of printed pages : 2 *NB-T/Auto(V)/1*

2024

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.

v) Write the correct question number in your answer sheet to indicate the option being attempted.

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. Vehicle engines that work on internal combustion engine and electric are called
(a) Battery operated engines (b) Hybrid engines
(c) Electric engines (d) Air engines

ii. Which of the following is the outer edge of a wheel that holds the tires and acts as link between the hub and the tyre?
(a) Rim (b) Flange
(c) Barrel (d) Lug hole

iii. Which of the following is a measurement unit of pressure?
(a) CFM (cubic feet per min) (b) Pounds per square inch (PSI)
(c) Horse power (d) Watts

iv. Who is the first point of contact between customer and the dealership in an automobile shop?
(a) Automobile engineer (b) Automobile technician
(c) Automobile shopkeeper (d) Automobile salesperson

v. To ensure that the vehicle remains at optimal operating temperature, the vehicle relies on a fluid called
(a) Petrol (b) Brake oil
(c) Coolant (d) Gear oil

vi. The opposite side of the face of a hammer is called
(a) Cheek (b) Neck
(c) Face (d) Peen

vii. ABS stands for
(a) Active braking system (b) Artificial braking system
(c) Autonomous braking system (d) Anti lock braking system

viii. It refers to the language that has been used in a message
(a) Content (b) Process
(c) Context (d) Information

ix. The ability to work on more than one thing at a time and complete each of them with required proficiency is known as
(a) Organisational skill (b) Negotiating skill
(c) Multi tasking ability (d) Adaptability

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x. The United Nations Sustainable Development Summit 2015 set certain global development goals known as

(a) Agenda 2015 (b) Agenda 2020
(c) Agenda 2025 (d) Agenda 2030

Answer the following questions in one word or one sentence:

2. List the two types of chassis. **1**
3. What is a screwdriver? **1**
4. Mention any two C's of effective communication. **1**
5. Name two types of engine oil. **1**
6. What is customer service? **1**
7. Write two benefits of using electric cars. **1**
8. What is stress? **1**
9. Define sustainable development. **1**

Answer the following questions in 20-50 words:

10. What is live axle and dead axle? **2**
11. Write the formula for least count of vernier calliper. **2**
12. Write four reasons for the need to change engine oil. **2**
13. List any two duties of automobile salesperson. **2**
14. What is stop and start technology? Why is it useful? **1+1=2**
15. What is the function of clutch and gearbox? **2**
16. What is start up India scheme? **2**
17. What is operating system in computer? Mention any two operating systems. **1+1=2**

Answer the following questions in 60-100 words:

18. (a) What is a wheel? Name any three parts of the wheel and write their functions.

Or **1+3=4**

(b) What is an engine? Name any three components of internal combustion engine and write their functions.

19. (a) Explain four types of hammers.

Or **4**

. (b) Explain the procedures of adding coolant.

20. Explain any four qualities of good customer service in automotive workshop. **4**
21. Explain four key components of hybrid electric cars. **4**

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Total number of printed pages: 7 *NB-T/SC/1*

2024

SCIENCE

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 in 4 Sections. Marks allocated to every question are indicated against it.*

iii) *All questions are compulsory in 1 and 2 marks questions (Section A and B).*

iv) *Internal choice is given in 3 and 5 marks questions (Section C and D). A student has to attempt only one of the alternatives in such questions.*

v) *General choice is given in 5 marks questions. A student has to attempt only 4 questions from this Section-D.*

vi) *Alternate questions for the visually impaired students are provided in some questions.* ***Only the visually impaired students have to attempt such alternate questions****.*

vii) *Write the correct question number in your answer sheet to indicate the option being attempted.*

N.B: Check to ensure 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:**

(i) The given reaction is an example of

$$Na_2SO_4 + BaCl_2 \rightarrow BaSO_4 + 2NaCl$$ **1**

(a) combination reaction (b) double displacement reaction

(c) decomposition reaction (d) displacement reaction

(ii) Butanol is a four-carbon compound with the functional group **1**

(a) -CHO (b) -COOH

(c) -COO- (d) -OH

(iii) What is the name of the compound- CH_3CH_2COOH? **1**

(a) Ethanal (b) Propanoic acid

(c) Ethanoic acid (d) Propanol

(iv) Which part of the human alimentary canal receives bile from the liver? **1**

(a) Stomach (b) Small intestine

(c) Large intestine (d) Oesophagus

(v) At synapse, chemical signal is transmitted from **1**

(a) dendritic end of one neuron to axonal end of another neuron

(b) axon to cell body of same neuron

(c) cell body to axonal end of same neuron

(d) axonal end of one neuron to dendritic end of another neuron

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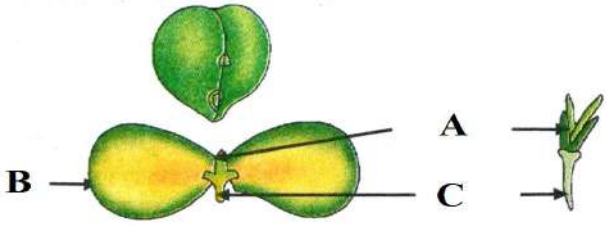
(vi) In the given figure, the parts A, B & C are sequentially **1**



(a) cotyledon, plumule & radicle (b) plumule, radicle & cotyledon
(c) plumule, cotyledon & radicle (d) radicle, cotyledon & plumule

(vii) In human females, an event that marks the onset of reproductive phase is **1**
(a) growth of body (b) changes in the hair pattern
(c) change in voice (d) menstruation

(viii) In human males, all the chromosomes are paired perfectly except one. These unpaired chromosomes are **1**
(i) large chromosomes (ii) small chromosomes
(iii) y chromosomes (iv) x chromosomes

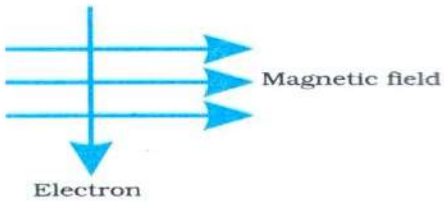
(a) both (i) and (ii) (b) both (i) and (iii)
(c) both (iii) and (iv) (d) both (ii) and (iv)

(ix) In peas, a pure tall plant (TT) is crossed with a short plant (tt). The ratio of pure tall plants to short plants in F_2 is **1**
(a) 1:3 (b) 3:1
(c) 1:1 (d) 2:1

(x) The human eye forms the image of an object at the **1**
(a) retina (b) iris
(c) pupil (d) cornea

(xi) The apparent flattening of the sun's disc at sunset is due to the phenomenon of **1**
(a) reflection (b) refraction
(c) dispersion (d) tyndall effect

(xii) An electron enters a magnetic field at right angle to it as shown in the figure. The direction of force acting on the electron will be **1**



(a) to the right (b) to the left
(c) into the page (d) out of page

(xiii) What is the shape of the magnetic field lines at the centre of a circular loop? **1**
(a) Curve (b) Parabola
(c) Straight (d) Circular

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(xiv) In a food chain, the third trophic level is always occupied by **1**

(a) producers (b) herbivores
(c) decomposers (d) carnivores

(xv) Disposable plastic plates should not be used because they are made of **1**

(a) light weight materials (b) non-biodegradable materials
(c) bio-degradable materials (d) non-toxic materials

SECTION - B

Answer the following questions in about 20-30 words:

2. If we take hydrochloric acid (HCl) and acetic acid (CH_3COOH) of the same concentration of 1 molar; HCl is found to be a strong acid and CH_3COOH is found to be a weak acid. Give reason. **2**

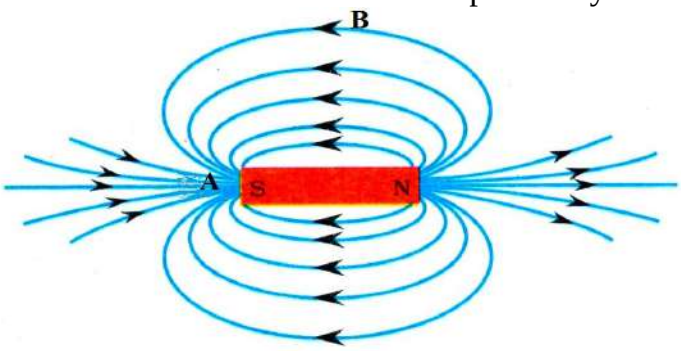
3. Why does calcium start floating when added to water? Write the reaction of calcium with water. **2**

4. Write the formula and draw the structure of benzene. **2**

5. How are lungs designed to maximize area for exchange of gases in human beings? **2**

6. What is chemotropism? Give one example. **2**

7. Magnetic field lines around a bar magnet are shown in the figure. Lanu makes a statement that; magnetic field at point A is stronger than at point B. State whether the statement is correct. Explain why? **2**



SECTION - C

Answer the following questions in about 40-60 words:

8. **a.** Balance the following chemical equations:

(i) $Fe + H_2O \rightarrow Fe_3O_4 + H_2$

(ii) $Pb(NO_3)_2 \rightarrow 2PbO + NO_2 + O_2$

(iii) $NaOH + H_2SO_4 \rightarrow Na_2SO_4 + H_2O$ **3×1=3**

Or

b. What is oxidation-reduction reaction? Give one example. (2+1=3)

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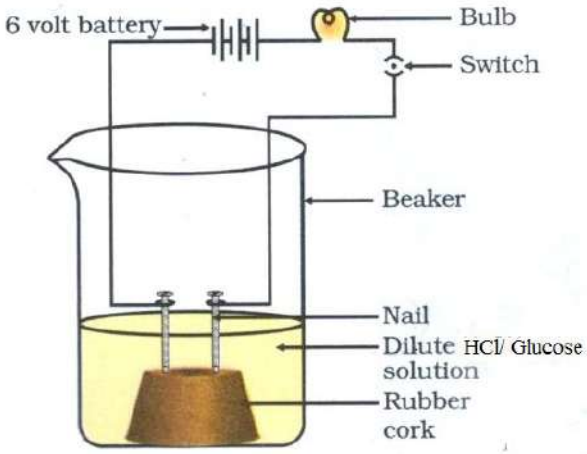
9. In the following experiment, what will happen if we add?



(i) HCl solution in the beaker and switch on the current.
(ii) Glucose ($C_6H_{12}O_6$) solution in the beaker and switch on the current.
(iii) What conclusion can be drawn from the above experiment? **3×1=3**

Alternate question for the visually impaired students:
What is chlor-alkali process? Name two products formed by this process. (1+2=3)

10. **a.** Draw the electron dot structure of a molecule with single, double and triple covalent bond.

Or **3×1=3**

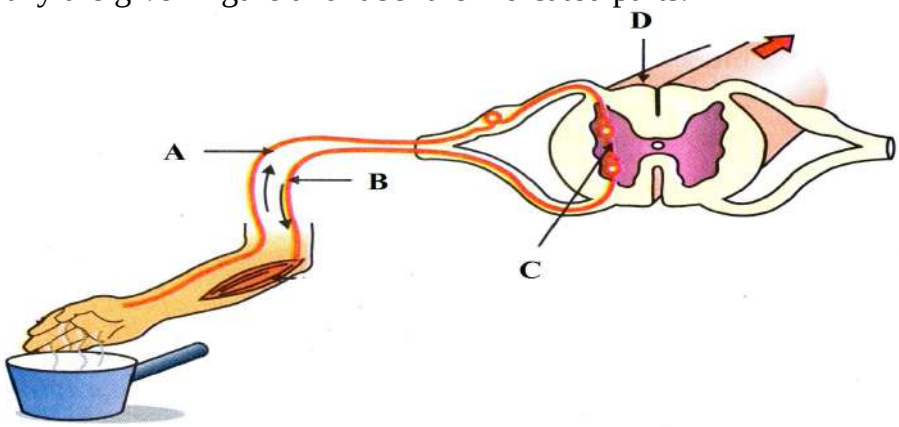
b. Draw the structural isomers of pentane (C_5H_{12}).

Alternate question for the visually impaired students:
Explain three chemical properties of carbon compounds. (3×1=3)

11. **a.** Draw the structure of a neuron and label any four parts.

Or **1+4×½=3**

b. Identify the given figure and label the indicated parts.



Alternate question for the visually impaired students:
Compare and contrast the nervous and hormonal mechanism for control and co-ordination in animals. (3)

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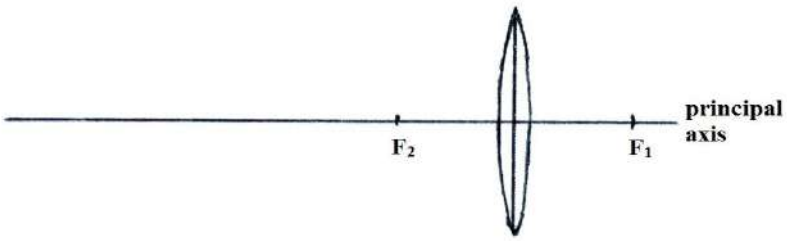
12. How do Mendel's experiments show that traits may be dominant or recessive? What will be the F_1 progeny if a tall plant with round seeds is crossed with short plant with wrinkled seeds? **2+1=3**

13. **a.** The image below shows a thin lens of focal length 5m.
(i) What is the kind of lens shown in the figure below?
(ii) If a real inverted image is to be formed by this lens at a distance of 7m from the optical centre, then show with calculation where should the object be placed?



Or **3**

b. An object 4cm in size is placed at 25cm in front of a concave mirror of focal length 15cm. At what distance from the mirror should a screen be placed in order to obtain a sharp image? Find the nature and size of the image.

Alternate question for the visually impaired students:
(i) State the difference between Pole and Centre of curvature of a spherical mirror.
(ii) In which type of mirror does the centre of curvature lie behind the mirror? (2+1=3)

14. Define power of accommodation. How does it help us to see nearby and far away objects? **1+2=3**

15. **a.** The potential difference between terminals of an electric heater is 60V when it draws a current of 4A from the source. What current will the heater draw if the potential difference is increased to 120V?

Or **3**

b. Show with calculation how can three resistors of resistances 2Ω, 3Ω and 6Ω be connected to give a total resistance of (i) 4Ω and (ii) 1Ω?

Alternate question for the visually impaired students:
State Ohm's Law and express it mathematically. (2+1=3)

16. (i) Will current flow more easily through a thick wire of same material when connected to same source? Explain.
(ii) Why does the cord of an electric heater not glow while heating element does? **1+2=3**

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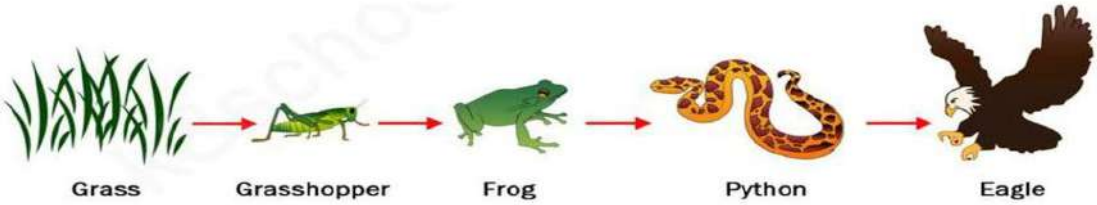
17. What precautions should be taken to avoid the overloading of domestic circuit? Give three points. **3**

18. Study the food chain given below and answer the questions that follow:



(i) If the amount of energy available at the third trophic level is 100 Joules, then how much energy will be available at the producer level? Justify your answer.

(ii) Is it possible to have two more trophic levels in this food chain? Justify your answer. **2+1=3**

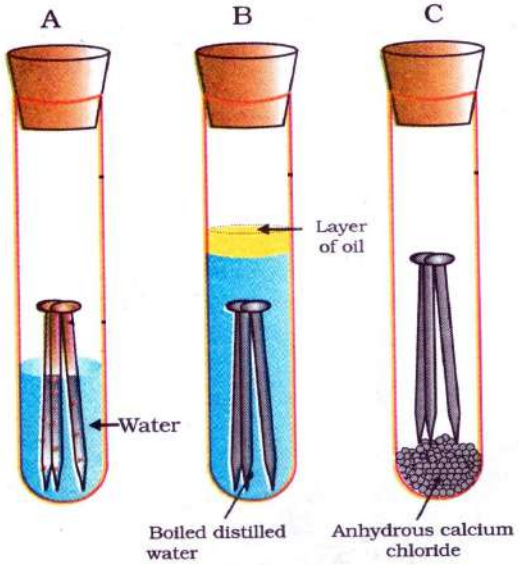
Alternate question for the visually impaired students:

What is ozone? Explain how it is formed. (1+2=3)

SECTION - D

Answer <u>any 4 questions</u> from the following questions <u>(19 to 23)</u> in about 70-100 words:

19. Abulie conducted an experiment to investigate the condition under which iron rust. He took three test tubes and placed clean iron nails in each of them, as shown in the figure.
- In test tube A, he put water.
- In test tube B, he put boiled distilled water and a layer of oil.
- In test tube C, he put anhydrous calcium chloride.



(i) In which of the following test tubes, the rusting of iron nails took place. Give reason.

(ii) In which of the test tubes, the rusting of iron nails did not take place. Give reason. **2+3=5**

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Alternate question for the visually impaired students:

Explain five ways to prevent rusting of iron. (5×1=5)

20. Explain the human excretory system with a neat labelled diagram. **3+2=5**

Alternate question for the visually impaired students:

Name the components of the excretory system in human beings. Give one function of each. (5)

21. Describe the various pathways involved in breaking down of glucose molecule. **5**

22. **a.** Draw a labelled diagram of the longitudinal section of a flower and explain the male and female reproductive parts.

Or **2+3=5**

b. Draw and explain the female reproductive system in humans.

Alternate question for the visually impaired students:

Explain any two mode of reproduction by a single cell organism. (2½+2½=5)

23. **a.** Draw a ray diagram of an image formation by a concave mirror, when object is placed : (i) beyond C (ii) between P and F.

Write the nature and position of the image formed in both the cases.

Or **1½+1½+2=5**

b. Draw a ray diagram of an image formation by a convex lens, when the object is placed : (i) between F_1 and $2F_1$ (ii) between F_1 and optical centre.

Write the nature and position of the image formed in both the cases.

Alternate question for the visually impaired students:

(i) A lemon appears larger when immersed in a glass of water. Explain why.

(ii) How does light ray bent as it goes from rarer to denser medium?

(iii) As light enters through a glass slab, the emergent ray is parallel to incident ray. Why?

(iv) What is refraction of light? (1+1+2+1=5)

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Total number of printed pages : 5 *NB-T/T/1*

2024

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 24 main questions.

iii) Internal choice has been provided in some questions.

iv) Write the correct question number in your answer sheet to indicate the option being attempted.

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

SECTION – A (Kesi Mhaphrü)

1. **Thedze phrülie di ketsokecü hako kelashülie:**

U tsiepfumia kelhouzho u kenei se puo sü kepekro di lhoukecü. Themiae lhoukecü nu huoniehuo se morosuoya mu süla kepekrokecüe meyie se. Rüna pete nu thehouba ba phreya mu süko nunu u krü u tsiepfumiae kehou mu kepekro vor üsi. Ukoe uko mhatho re phi. Kechükenyü huo nyita, penie tei huo morei ketsienyhata mo liro miapuorei tsu mo di baya mo üsi. Ukoe kepekrokecü la uko tei jüya mo. Ukoe khise uko mhatho nu voketa mhodzü vo thehoubako nunu thedzetheseko kepuya, siro uko mhathoko nu vokewa sie rei kepekrolieya üsi.

Ukoe thedzethese, theriethekro, liecielierhieko pete thehouchü nunu kepulieya. Mhathomhachü pete rei thehou nunu kepuya. Mhanuü mia huo dze kesuo huo nyi di thehouba nunu kepu bata liro süu vi mote mu süu thengate. Themia thehou nu voya kemokoe mia u le peviya mo mu sümia thataya üsi. U krü zho keviko rei thehoubako nunu si sakuolieya. Nhicumiae phichümia perieya. U krü u pfutsanuokoe die pukecü nu 'A süu putuoü vorzhie' iya mo derei phichümia thuo rei die pukecü nu "A thie phichümia chalie chü di puzhie ho' iya üsi. Thehethehieko nu vo liro phichümia bu mha metha rieya mu sidi ukoe jashüya.

Thiedzü teiu nu we miapuorei lietsu gei rülei bataya mo mu süla phere di huoniehuo kinu vokecü chü petsa phi süla thekhruothenyi teiko geinu kesilieya üsi kekreilamonyü thenyi teiko nu liro huoniehuo ga kakecü rei chü phiya mu süla mia krünuokoe u nuonuo bu u muo se vo u mei, u niako tsü di u bu kesilieya. Kepekro di lhouyakecü puo rhi kekreikreikecü donu kekhriethokecü rei meyie se mu khriethomia liro kechükesia teiko nu rei kekho kelho die kepuya üsi. U tsiepfumia kezeu kezeu mu kezepfü kezepfü nyi phreya üsi. Mia puoe nanyü chü liro mithu phi khupie puo zeu tsüya üsi mu mha hau mha kemeyie mu therhu sekecü puo. Mithu phi hau-e khrietho muo siya.

Diecako donu puotou-u kedapie thushülie:

a. Rüna pete nu kedipuo ba phreya ga? **1**

(i) Kepekrokecü ba (iii) U krü u pfutsanuo kehou ba

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(ii) Thehouba (iv) Thehethehie ba

b. Kimhiekecümia mhasi rükrülieya ga? **1**

(i) Kiülie nu keshürheimia (iii) Thehouba nu voyakezhamia

(ii) U thuo u peleyakezhamia (iv) U rübei mha leyakezhamia

c. U tsiepfumia kedipuo kechü nu u tei jüya mo ga? **1**

(i) Liecielierhiekecü (iii) Mhathomhachü

(ii) Kepekrokecü (iv) Thehethehie

d. Kevimia-e die pukecü **1**

(i) Ae mhakenyimia (iii) Ae kevimia

(ii) Ae mhakesimia (iv) Ae kethachümia

e. Kekhriethokecü nu mithu phi khupie tsükecüu **1**

(i) Khrietho muo (iii) Therhu

(ii) Meyie (iv) Nanyü muo

f. Kezeu kepetsou thushülie. **1**

(i) Kezepfü kezepfü (iii) Kezepfü

(ii) A zepfü (iv) A kezepfü

g. Thedze nu cayieu thushülie. Kiüdi thiedzü huoniehuo kinu vo petsaya ga? **1+1=2**

h. U pfutsanuoko die kimhie di puya ga? Khrietho nu kedipuo kepfhekho pie baya üsi ga? **1+1=2**

SECTION – B (Thedze Kezo)

2. **Hanie puo (1) kedapie dieca krie puo nunu krie di hiepengou (100 – 150) mese nu thushülie.**

a. N nadi nu themiako cienheciera kelhoupie dzücha (drainage) nu khashü di tei rü vor tse dzü bu zoupfü kezakezi di nadiu bie perhuthor baketa la kethezhokecü dzeyieleshü puo thupie thedzeleshü kethukemeho-u tsü di kimhielie morosuo shikecü n nounyü kezashülie.

Moro **6**

b. Nieko leshüki nu ‘thezie khakeshü’(blood donation) mhathochie puo chükelieu se rükhruo mhathu puo thupie Mt. Japfü leshükiu dieyieleshü nu khashülie.

3. **Hanie puo (1) kedapie dieca hiepengou (50) mese nunu thushülie.**

a. Leshüki nu Tenyidie zekecü puo kemevi ba mu mo ücü kephrümia kenie kerüchükecü rhi nunu thushülie.

Moro **4**

b. Noe leshüda kesa puo thukelie la süu kekhrü kehouchie puo pebatuo üzhie. Süu pemvü di phreikie puo thupie kezashülie.

SECTION – C (Diezho mu Thuyie)

4. **Die puotou-u kedapie thushülie:** **5x1=5**

(a) Puo rüzhü nu le di kuolie. ‘Kuo’ hau pfhephra kiu nu ba ga?

(i) Puo (iii) Se

(ii) Kenie (iv) Pengou

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(b) Khunuo se mia thuyakezhau üse-
(i) Ke (iii) Kia
(ii) Kie (iv) Ka

(c) Puo seibo geinu tetsu. Dieca hau nu diepe-u kiu ga?
(i) Puo (iii) tetsu
(ii) seibo (iv) geinu

(d) No ketho pu ba _____?
(i) shi (iii) ga
(ii) nhie (iv) ro

(e) Chüwaketa dze pesikeshü.
(i) Puwa (iii) Pute
(ii) Puta (iv) Puya

5. **Dieca 'zhie' hau se puoca kenyi diecha mu diemei diecha puopuo chüshülie.** **1+1=2**

6. **Zatsekhu 90% hau dieca nu thushülie.** **1**

7. **Dieca puokru tou-u pie rhiephi (-) kesedo thashülie.** **1**
_____ pu melie.

8. **Diesou hako puoca thushülie.**
a. Noutenouca **1**
b. Sopasolhi **1**
c. Thecathebie **1**

9. **Diekhu mu dierozu kekrü kebako thu kemezhüshülie.**
a. Nyiepu pete rei zivi yazo. **1**
b. Ciedo themia kelhou rüdi phi te. **1**
c. Kenie mu kenie ro die chülie ya. **1**

10. **Diecha hako thuyie chüpie Tenyidie nu khashülie.** **5x1=5**
a. What a beautiful house you have!
b. He spoke very softly.
c. No need to worry.
d. Who broke the window?
e. Why are you absent-minded?

SECTION – D (Diemvü)

11. **Diecako donu puotou-u kedapie thushülie:** **5x1=5**

(a) Tsathouyo kediu la puotei kichiepuo mevo ga?
(i) Zha thenie (iii) Khrü hiethenie
(ii) Zha hiethenie (iv) Khrü thenie

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(b) Vihienuo _____ puo nunu rüzie hie.
(i) Lietsa (iii) Thelhuo
(ii) Rüna (iv) Ca

(c) Red Cross mhatho hau la kehou kerietho-u nu supuo bu kehou se ga?
(i) Dunant (iii) Ketsau
(ii) Moynier (iv) Napoleon

(d) Kiüdi Rütsolhouü puo thuo puo pie joyie ze kemejüshü ga?
(i) Puo nieu gei jakecü la (iii) Puo ra kemo sikeshü la
(ii) Puo krü siaketa la (iv) Puo nieu puo peseketa la

(e) "Yharayhayhu" ikecü hau puoca kedipuo ga?
(i) Merieyhara (iii) Kekra
(ii) Mha kemeva (iv) Ketei

Ketsokecü hako donu sorou (6) kedapie dieca 20 – 25 mese nunu kelashülie : 6x2=12

12. Kedipuo chü moro kedipfüe shürholie lhota üdi kediu ki pu ga?
13. Kedipuo la Krase-e Kedieu geiketuo rhüta ga?
14. Vihienuo kedipuopuo se puo üpfü tarhoshü ga?
15. Solferino kijü nu rüna kiu nunu terhü chüta ga mu kimhiecü rhü puo üsi ga?
16. Martin Luther King-e kijü nu mhasi phrüketuo phrü tseikelie sie kedipuo chüketuo puo pepilie ga?
17. A kesuoüpfü kedipuo la puo nou mezhieta ga?
18. "Tuo sei zhü rei rüwita molie." Diecha hau geizo kiu nunu se par ga? Ükezomia za thushülie.

Ketsokecü hako donu kenie (2) kedapie dieca 40 – 50 mese nunu kelashülie : 2x4=8

19. "Hei! Kedipfü n zivi we mhatho puolie, rüna puo nu Nyiepoudiü ücüpfü puo ba mu süpfü phizhü zorei n zie ki zivi sewe."
    i. Kedipfüe die hau sikelie ki kedipuo mhieta ga? (2)
    ii. Kedipfü thedo kesuo kicüpuo rhü sieta ga? (2)

20. Jean Henry Dunant supuo ga? Kimhie di puoe rüyachü nu rüzapfü kezhüko khruohishü ga? 'Solferino Kerükra' leshüdayo Europe nu kimhie vota ga? (1+2+1=4)

21. "Hie pfhe ketei chü dzie suo keba, cüi chüse huopiehuorie ke. Hie kethau mo zhülie dinu."
    i. Diecha hako geizo kiu nunu se par ga? (1)
    ii. "Huopiehuorie' puoca kedipuo ga? (1)

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iii. Thenupfüe terhümia puo nupfu geikewa dze sikelie ki kedipuo chü ga? (2)

Ketsokecü hako dieca 60 – 90 mese nunu kelashülie:

22. a. Themia kekhrü hau tuo zo vor puo kele nu tsolieta. Puo tuoshütuo ücü duü rei thuophi di tuo. Süsie vor thechüu tsokelie ki rei puo thuophi la mecie. Thuophi geinu terhuomiae pedzüperie puo puo keleu chülieketuo pie puo pesishüwata.

i. Themia kekhrü hau supuo ga? **1**
ii. 'Thuophi' puoca kedipuo ga? **1**
iii. Thuophikelie geinu kedipuo silieya ga? **1**
iv. Puo kedipuo chüketuo la thechü hau nu vor ga? **1**
v. Kimhie di puo kele chülie ga? **1**

Moro

b. Kedipuo la Keziu puo nieu khawa di rühou tuota ga? Keziu kirapuo nu tshü tsia pelhou ga? Süko kimhielie üsi ga? Rüna nu phichükoe Keziu bu kedipuo chülienu pushü ga? (1+1+1+2=5)

23. "Nhicu rüzhü hie kehie shüshie
Hie pfu hie pie hie zuo hie dzieshü
Suo ze bata rei la hie kenyhu
Keba ki we jüta mo dinu."

i. Diecha hako geizo kiu nunu se par ga? **1**
ii. Ükezomia geizo hau nu kedipuo dze pushü ga? **2**
iii. Geizo diecha hako ca vatshashülie. **2**

24. a. "*A kesuoü sie vo thenupfü*
Sou chülie mu liemou a se nu
Ketsu nhie we teinuo kesisie
Mehü thesü loziko pfhe he
Zo vor mu zo sie a khou vü."

i. Diecha hako geizo kiu nunu se par ga? **1**
ii. Loziko puoca kedipuo ga? **1**
iii. Geizo diecha hako ükezomia kele medzi di vatshashülie. **3**

Moro

b. Ketho mu Kevi geizo-u supuo zoshü ga? U themia we ketho mu kevi silie mo di kedipuo chütuoya mu Jihova die we kimhie üsi ga? Ükezomia kimhie di kijü nu kelhou mu teigei kelhou dze pushü ga? Geizo-u nu zhorüli kevi kenie thushülie. (1+1+1+2=5)

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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 22 main questions.

iii) Internal choice has been provided in some questions.

iv) Write the correct question number in your answer sheet to indicate the option being attempted.

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

SHILEM – A (Rajem Latang)

1. **Teküpoklen agüja alibaji junga züngang aser tasüngdangbatemji langzüang:**

Senso tajungi pei nübur asoshi mapa tajung inyaker. Shinoki pei nübur aser pei lima atema nübu, rongsen, mapang aser shisatsü agi yarir parnokji senso tajung ta züngshir. Pei jurila ajangzüktsü atema masü saka pei lima nübur ajangzüktsü atema senso shiai inyaktsüla.

Mejai koda meranga aser tanen makai inyaker, yamaji nübur ajaki pei asoshi mapa meranga aser shisa kaa inyaktsü angazüktsüla. Inyakba agi takar akümer saka meinyakra sensaka alitsü. Ajaki wadang balala nung mapa balala meranga inyakra iba jagi linük ka meraketaktsür. Nisung shiai pei lima atema mapa meranga inyaktsüla. Mapa meranga aser nendaka inyakbaji senso ka teinyaktsü tongtibang shilem mesüra asen nem lemzüktsüba mapa senzüka yutsübaji tai tulu lir. Office-i mapang shitak nung or temulung agüja aser merükmerüka inyaka yutsübaji awashi tajung. Mapa meranga inyaker taküm kaji ajaki meraketa repranger.

Alima nung mapa meranga inyaker rongnung America nunger, England nunger, Japan aser China nungertemji lir. Parnoki mapa meranga inyakba yong parnok lima nung senso ka tali meraketa repranger. Item lima nung nübur ajaki mapa kanga meranga aser tasa kaa inyaker. Ibayongji parnok lima takar akümer. Takar lima akümtsü asoshi nübur masü saka wadang balala nung alimai züngshitsüsa mapa jenti inyaktsü renema alitsü nüngdak.

Aluyimertem shirnoki metsü tsüngküm shitak nung meranga inyaker, parnoki pei kisüng ajangzükba dang masü saka nüburtem ajak ajangzüktsüsa inyakteter. Iba jagi linük ka rongsenketsüng nung ajungketer aser nübur anüngaponga metoktsür. Yamaji kaketshirtem shirnoki meranga azünger parnoki takok tajung ngua pei Khonang nüngsang anguba dang masü saka iba jagi pei linük aser nüburtem jenjang tejakleni anir.

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Nisung shia inyaktsü mapa balala lir. Nübur shiai item mapa balala ajak shia alitsü nüngdaker. Nisung kati mapa tapu aika shia aser meteta alitsü nüngdak. Item rongnung karbosa tangar dang nungi tajungba lanur shiai inyaktettsüla. Kodang nisung kati mapa jenti tobur junga mesüra ronem ronema inyakteter, iba jagi linük nung terenlok adokdakrsür.

Itemi langzüang:

(a) Senso tajungi pei nübur asoshi mapa _____ inyaker. **1**

i. meranga ii. tajung
iii. jenti iv. aika

(b) Nisungi kechi nungi meranga inyaktsü angazüker? **1**

i. Tsürabur ii. Shiruru
iii. Medemer iv. Meja

(c) Asen nem lemzüktsüba mapa senzüka yutsübaji _____ tulu lir. **1**

i. temenen ii. tai
iii. khuret iv. shisabulu

(d) Mapa meranga inyaker taküm kaji tangari koma repranger? **1**

i. Sabua ii. Akhümketa
iii. Meraketa iv. Nükshia

(e) Parnoki mapa meranga inyakba yong parnok lima nung _____ ka tali meraketa repranger. **1**

i. nisung ii. tetsür
iii. tebur iv. senso

(f) Takar lima akümtsü asoshi nübur masü saka wadang balala nung alimai _____ mapa jenti inyaktsü renema alitsü nüngdak. **1**

i. züngshitsüsa ii. meteta
iii. sabutsüsa iv. meimtsüsa

(g) Meranga inyakba tajangzük kar shiang. **2**

(h) Senso ka tongtibang teinyaktsü kechi? **2**

SHILEM – B (Olem)

2. **Agüja aliba onük aser arrla amshia ojang 100 – 150 shi nung shiti ka züluang:**

a. Na Temjenba/ Temjenla, Heritage colony, Dimapur nung alir, nai osang kaket nung züngshiba ama, Human Resource Manager, Excel Software, C.P Road, Dimapur dangi Computer Engineer mapa atema temepishiba shiti ka züluang. **6**

Mesüra

b. Ner school-I ayongzüba 'Lipoküm Anogo' koda amung, iba sentong nung tangar school-tem jaoka shilem agi iba indang osang kaket nung adoktsü asoshi osang agütsüba ka züluang.

3. **Agüja aliba onük aser arrla amshia ana rongnung ka ojang 50 shi nung züluang:**

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a. Na kaket zülur tajung ka, nai züluba kaket tasen ka sayatsü asoshi ner medemer, adianu aser nüngdakbapur jaokba (invitation) ka züluang.

Mesüra **4**

b. Agüja aliba onük amshia sensaksem ka züluang:
Medemer ana tsüngda tatidang temer kechi inyaktsü sentongsa lir, iba indang sensaksem (dialogue) ka züluang.

SHILEM – C (Orrlem)

4. **Agüja alibatem nungi shitak telangzüba agüjang:** **5x1=5**

(a) Koba ojang ya timsü ojang?
(i) Masü (ii) Kar
(iii) Mali (iv) Maka

(b) Oti aser Nendong temesüktep ojang mesüra oyim dang kechi ajar?
(i) Rarem leplashi (ii) Nendong saku
(iii) Müken Nendong (iv) Ramok leplashi

(c) Tana Amilemi belenzüka Tasem Amilem dang oa ashibaji _____ tongta.
(i) Jilok tongta (ii) Müken tongta
(iii) Tana tongta (iv) Otenta tongta

(d) Oren ana mesüra ana dak tali mesentepa tuluba kümtetba dang kechi ajar?
(i) Kezi oren (ii) Atentep oren
(iii) Ayimlok oren (iv) Oren jinutep

(e) Mapanglem tapu asemji kaka shia kwi lemsar?
(i) Ana (ii) Asem
(iii) Pezü (iv) Pungu

5. **Timsü aser Rapasü leni meyipang:** **2x1=2**

(a) Tulur ashiba manga nungma.
(b) Tsüngrem temeim ajak den kasasa lir.

6. **Jilok aser müken tongta leni meyipang.** **2x1=2**

(a) Yimsüsüri ashi, ‘bangdak küpok liang.’
(b) Merenlai ozü ki tobur ajung indang thama.

7. **Item oren kobala oren nungsa aden züluang**. **2x1=2**

(a) Alila anogo shia alui aor.
(b) Asenoki ngunüba nisung shiba indang ajaki angashia lir iba to ya.

8. (a) Temsülai ni aiben yarir (Tongnir, salur aser nendong lemdangang) **1**

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(b) Yimya agi sensakeri ajemalur (Tongnir muralokoing, salur atsülangang) **1**

9. **Mungra tapu kwi lir talishitsü oren ka ka zülüang.** **1+1=2**

10. **Ao oshi agi meyipang:** **5x1=5**
(a) What a beautiful house you have!
(b) He spoke very softly.
(c) No need to worry.
(d) Who broke the window?
(e) Why are you absent-minded?

SHILEM - D (Otsü aser Sangro)

11. **Agüja aliba nungi shitak telangzüba shimteta:** **5x1=5**

(a) Kidang _____ aliba agi kibong ta ajar.
(i) Putepa aser pelatepa (ii) Jungtepa aser yaritepa
(iii) Yaritepa aser putepa (iv) Jungtepa aser putepa

(b) "Ankodangi aoba tetezü
(i) An tekong shizükba (ii) An tekong atangba
(iii) An tekong lepzükba (iv) Aeni aoba

(c) Aori küm nung alu lenmang _____ tashi apir.
(i) anaben (ii) asemben
(iii) pezüben (iv) punguben

(d) Chungliyimti riju penzür angji ni _____.
(i) lilasang (ii) sotetlasang
(iii) mesemshilasang (iv) tialasang

(e) Sariwar tetezü?
(i) Tsükchir pelateper (ii) Aeni aor
(iii) Tongpangi aor (iv) Ainlen jajar

Item tasüngdangbatem ojang 20 – 25 tashi nung langzüang: **6x2=12**

12. Benjongbentsü nung aon kentsütepa tapu anaji kechisa.
13. a. Aor sobalibaji kechiba tangari junger ta ashir?

Mesüra

b. Kima yimdong jembishinü awashi yimya tajung kar shiang.
14. Kechiba asenoki arem lushi aser tzü mopung kümzüka ayutsüla.
15. Tzüpong tetezü kechi?
16. 'Lisem Manung Tenüng' sangro nung sangro züluri kechi inyaktsü mulungtet?

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17. a. Shirsa sobu totep?

Mesüra

b. Imtimeren Jamiri pa tayang mulung kechi agi süneptsü ta bilem?

Item tasüngdangbatem ojang 40 – 50 tashi nung langzüang: 2x4=8

18. Nagaland nung nai metetba 'Tourist Spot' mesüra State Government-I agizüka aser meteta aliba 'Tourist Village' ka indang rasaa züluang.

19.a Kechiba nokinketer ta aja? Nokinketertemi kechi osetsa amshia rara?

Mesüra

b. Tokonglu ayimba jenjang telemsa kwi lir tenüngtem shiang aser rateta züluang.

Item tasüngdangbatem ojang 60 – 90 tashi nung langzüang: 3x5=15

20.a. Sobaliba tetezü kechi? Sobaliba tapu kwi rateta züluang. (1+4=5)

Mesüra

b. Yimjung tetezü kechi? Yimjung ajanga kechi adoker? Na yimjung yanglur ka ta shitettsü nai kechisa inyaksütsüla? (1+1+3=5)

21. *'Pa temeshi lai kü tanela chiyungtsü. Ni mekümzükra ni tanaben asütsü'.*

i) Koba sangro nungi? (1)
ii) Shibai mejem? (1)
iii) Agüja aliba orentemji rateta shiang? (3)

22 a. *"Anikilen tasüngtet ashiapong*
aser anembong akaba kin.
Tetsü-tamo-tanük- taku ketepsentep,
Ilang-tinu temeimtep."

i) koba sangro nungi? (1)
ii) Shibai zülu? (1)
iii) Tekongji rateta züluang. (3)

Mesüra

b. *"Batir kilang tajung metsü küma*
Septsü dentsü mopungi oner ogo.
Putu jenti züsenba rongsen agi
Aoyi küma sayatenyatsüogo.
Putusa putu Ao kin otsü nung
Mamatsttsü asükolang tonga".

i) Koba sangro nungi? (1)
ii) Shibai zülu? (1)
iii) Tekongji rateta shiang. (3)

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SÜMI (SÜTSAH)

Total marks : 80 Time : 3 hours

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KOKÜPPHA – A (Ghili Kiyye)

1. **Yepua keu phiju no inijü akeqo khochile tsülo:**

Raja Ram Mohan Roy ye aqoaho shikikithe gholo atughumi. Paye 1771 mpe lono Hooghly district lo kuthokuzu Brahmin Hindumi kibo lono punu. Pa kighthi hukuthu boqha ye Muslim Maktab lono ithulu eno paye Arabic ngo Persian tsalo akighiche shivuve. Hipaqo tsa keu vechewono Koran ngo Islamic philosophy, eno Sufisimqo akivishi philuve. Kughono pano Hindu chine lo kumo keu pulu che keu che keu tishi kepu kumo ipi oi pithuve keno papu aza kutolo paju alomouve. Tishikeu lono paye aki qhiveno aqha kümtsülo itsü izü che wuve eno tileno puju shiju keu kutomo shilu eno shikalu. Paye itaghi Kimiyemi tsa, French, Latin, Hebrew eno Greek tsaqo shikalu. Paye Gita eno Upanishadic philosophy qo ghi akivishi ithive. 1805 mpe lono Raja Ram Mohan Roy ye English East India Company Bengal loi akümla shi wuve. 1815 mpe loye akümla shimove no Calcutta lo xü acheuve. Tithiu paye pa kuxü kumtsu pephe pesü kütami ghenguno mla wuve. Paye Alhou lakhi likhi pülü eno asü-atu kümla eno achine jeli shi keu lachile. 1815 mpe lono Atmiya Sabha huthu tsü, ikemu 1828 lono kili pesu Bhama Samaj shive. Paye 1831 lo England lo wu, tiye Mughal Emperor ghenguno qhiniju tsu nike. Paye September 27, 1833 Bristol lono thive. Mughal Emperor no paje pesü Raja ipi kuve tsü.

Aküplü kuchou lo thonei kemi, Christianmi gholo ye Christian, Hinumi gholoye Hindu, Muslim gholo ye Muslim eno Hindumi gholo Vedantist (Vedanta vehu akivishi ithive kemi). Paye India lo Kimiyemi tsa kiphi, kulolaumi-u phuiko süghini ke ghenguno pa mlo kümtsü tsü saphu. Pa ghenguno Hindu College huthulu. Pano kiyephi ghenguno kichighi tsü.

Pano Sati lakükha ghenguno puthugho tsü. Sati ye akimi thive kelo anipu qhi piti kügh ave lhekeu ke. Chimemi külakithe luni keu sakuphu tsü, Casteism lakha, akimi anipu kutomo lu keu lachile, hipaqo lo sakuphu kumlah shitsu. Pa no Tsaiko ghenguno mullah süstsu keu mikhemuzu ye kumo. Akighiche kiyemi lakhino, Raja Ram Mohan Roy pesu "the herald of a new age" ipi kutsü keu ye achipi. Rabindranath Tagore no pi keu no Raja Ram Mohan Roy no India akitheu khaqhive tsü ipi. Raja Ram Mohan Roy thive ke thiu ye Brahma Samaj ye pa papemi Debendranath Tagore eno Keshavchandra Sen pama no pe kibe qove.

Achipiu tsathi pe kimichi tsulo:

a. Raja Ram Mohan Roy ye kiu mpe lono punu kea? **1**

(i) 1772 (iii) 1972

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(ii) 1872 (iv) 1771

b. Brahma Samaj ye azu-u ye ipi che kea? **1**
(i) Maha Dev (iii) Atmiya Sabha
(ii) Samual (iv) Manu kautilya

c. Paye khileno thive kea? **1**
(i) Delhi (iii) Hooghly
(ii) Mumbai (iv) Bristol

d. Paye keu philosophy akivishi ithive kea? **1**
(i) Vedanta (iii) Yoga
(ii) Uttara (iv) Gita eno upanishadic

e. Raja Ram Mohan Roy ye kiu mpe lono England lo wukea? **1**
(i) 1832 (iii) 1833
(ii) 1831 (iv) 1834

f. Khiu ghenguno Hindi college huthulu kea? **1**
(i) Dr. Rajendra Prasad (iii) Mahatma Gandhi
(ii) Raja Ram Mohan Roy (iv) Jawaharlal Nehru

g. Sati kiqi ye kiu kea? **2**

h. Akigiche kiyemi lakhi no 'Raja Ram Mohan Roy' pesükiu ku tsü kea? Khiu no paje pesü Raja ipi kuve tsü kea? **1+1=2**

KOKÜPPHA – B (Iqqikulu)

2. **Atsathi 100-150 dolono yelo:**

a. Principal Director, School Education lau yekili lakhi yelo. Noye Akato/ Tokali no kiphi kilo shikükami mipi akeu vechewo nongu no phine shi akeu toi nongu skikalu amokeu ghenguno. **6**

Momü

b. No w district lo opelo akijeu shipeno 'Shikükami tsala' ikhilu. Achüpüghü mla no ikhilu keu kishekulu kiyephi lo yesü lo.

3. **Atsathi 50 dolono lakhi likhi yelo:**

a. Kuküsü kiye, "Opu ngo oza pama akibo shilu keu Ampr 25ikhilu akeu". **4**

Momü

b. Noye Hino, oküsau no mugha, oküsau mugha ye ago aholo, aghili jeli achene eno akiphi lo ghi atüghiu jo lono tolu cheni. Paye kishi ado peitha thi cheni keno inju ghi oko küptsa kile keu yelo.

KOKÜPPHA – C (Tsayeh)

4. **Akiyethi akilhe kili ve keu kimichi tsülo:** **5x1=5**

(a) Akkha pesu _____ shiva.
(i) aqha (ii) aqa
(iii) aqqa (iv) aqhha

(b) Kükhü pesu _____ shiva.
(i) küuxu (ii) küxü
(iii) küxxü (iv) kukhu

(c) Akke pesu _____ shiva.

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(i) aqqe (ii) aqee
(iii) aqe (iv) ake

(d) Zhe pesu _____shiva.
(i) je (ii) ajee
(iii) azhe (iv) jeh

(e) Azhi pesu _____ shiva.
(i) ajii (ii) ajih
(iii) azi (iv) aji

5. **Sutsakutho akiqi pitsülo:**
(a) Khecheli kupo **1**
(b) Ayi kighe **1**

6. **Tsashi pe aje lo süvelo.**
(a) pe **1**
(b) ghe **1**

7. **Sucho pe Bidelau süvelo:**
(a) Alokivi. **1**
(b) Kükümgha. **1**

8. **Ye küqü pua keu achipiu lono yevelo:**
(a) Avino **1**
(b) Wu no **1**

9. **Atsa tuna pe atsajo mlalo:**
(a) Abo-ake **1**
(b) Tuqu-time **1**

10. **Sütsah lo pekili süve lo.** **5x1=5**

(a) What a beautiful house you have!
(b) He spoke very softly
(c) No need to worry.
(d) Who broke the window?
(e) Why are you absent-minded?

KOKÜPPHA- D (Kichitssathoh eno Apuh Assü Leshe)

11. **Achipiu tsathi pe kimeve tsülo:** **5x1=5**

(a) Willaim Carey ye _____ tsala loye phuiko eno xüghili phiche.
(i) asüzani (ii) aghizani
(iii) ashigheni (iv) anighini

(b) IRCS ye _____.
(i) India Red Cross Society
(ii) International Red Cross Society
(iii) Irish Red Cross Society
(iv) Iran Red Cross Society

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(c) Atopuu lakhino li kimi akiniu kilo wo kelo_____ lono küla cheni.
(i) Aminikimijixe (ii) Ashoghixe
(iii) Topunasho xe (iv) Lathaxe

(d) Kumlo chelo, _____ ye.
(i) Chishilimi (ii) Achulimi
(iii) Ayelimi (iv) Jimolimi

(e) Ghulo _____ kivehu juana.
(i) lakhi (ii) kuthu
(iii) kini (iv) bidi

Atsathi 20 – 25 dolono khochilelo: 6x2=12

12. Khunoqo pesü 'Serampore Trio' ipi kea?
13. Federal Governmentof Nagaland to State khije ache eno khiji shi reconstruct shive kea?
14. Amu no pa sasü kusholune pikelo Tüghami ye kishi pamu pishiqhi kea?
15. Juxeli ye Inami Sholu kelo kishi li vilo pitsü penishi ipi kea?
16. *"Tsala kipetsü Ino Sahu sawo naye,*
Hi lumo aye juküpülo shela"
a. Hiye kiu leshe lo ani kea? (1)
b. Khuno khiu lumove keu küpü ipi ani kea? (1)
17. a. *"Rathsamu nono tüngü sayewo.*
Che legho shole aye shole luve ala."
i. Tüngü kiqi jütsü lo.
ii. Khu sasü cheleqho ipi ani kea?

Momü

b. Kiu-a pesü 'Ghoshixe sülo' ipi kuve tsü kea?

Atsathi 40-50 dolono khochilelo: 4x2=8

18. a. Angushuu kiqi ye kiu, eno Azapokhi kiqi ye keu kea? (2+2=4)

Momü

b. Thochipa ye khuno ghami eno paye kishi keu lonono Tusholi pama kimiye kilelu keno yelo.

19. *"Timi ye ni lojimi pavinie ju kümsüye,*
Kucho iposhuu ikeyo no thsalu müthaye."
a. Hiye khu no khu shipili keu le kea? (2)
b. 'Ipushuu ikujo' ye khu pama pi ani kea. (2)

Atsathi 60 - 90 dolono khochilelo :

20. a. William Carey no India lo ighi kelo:
i. Khuno company no India lo lhidi shiche kea? **1**
ii. A-a khipaqo lo kea? **1**
iii. Kiu zükilu lo ikughi kelo Captain no atsala tukiqhe puwuve tsü kea? **1**
iv. Kiu zükilu eno kughono no Calcutta India tolu kea? **2**

Momü

b. i. British yepeka ighimoke lo khu no angushuu ilho keu aje kipishi kughache kea? (1)
ii. Paye kiu ngushuu kea? (1)
iii. Khuno ghami no atsala khije pa qo kea? (2)

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iv. Pay kiu, kiu lhoxü ilhone pükapütsa ju kea? (1)

21. a Tsüsütxe eno külakupu lo:
i. Kulakupu ye kiu ipi ye pua ani kea? **1**
ii. Akibo kiqi ye kiu kea? **2**
iii. Abolomi kiqi ye kiu kea? **2**

Momü

b. Timi ye khu sasu alu küghüngu chi che kea. Pama lu kichi ghili yelo. (1+4=5)

22. *"Iki no showo tsükinhe lazü, she ikuwo*
Tsükinhe inokukhu ki ye O puhnno lhokha shi,
Aküsa hi isalla shi tsüye.
O ltsü no hakiye ino kehi ato ino kugho lono."

i. Hiye kiu leshe lono ikiphe lu kea? **1**
ii. Khu sholu kea? **1**
iii. Khupe pe pa küsa shi tsü kea? **1**
iv. Itsü khilave kea? **1**
v. Khia-a lo atsü phuwu kea? **1**

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Total number of printed pages : 5 *NB-T/L/1*

2024

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 22 main questions.

iii) Internal choice has been provided in some questions.

iv) Write the correct question number in your answer sheet to indicate the option being attempted.

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

SECTION - A (Ekhao)

1. **Motsü shi khae zesi oküpoe engao jiang janlana:**

Nkolo eran reni oyan motsünga lo onpoe vancho. Oni na tsolo tsüka to na tsokhying tsüka to tae vana onpoeata chüi siracho. Onpyayi ji elümoto emhok nongra sükhying tssoe sicho. Tolia ota ji na oka ji heto ezocho, Aka apo ha ayo oni na mpa esisi yi silia ntia ntsso ka to phyota vancho. Tsüngon motsünga lo jo oka ji na ota ji, " Ata enio ntio tsotav meka eni ha oli teriv tae lia jontavka" to ezoa jontacho. Tsüngon na lo jo onpyayi na oli wotale ocho n asana oni liji joni licho. Hoji tsükona ota na oyan ji lo oki akvü nte na aka eni li ji ejonicho alo to engathechia wocho. Tolia oki akvü na eli tia nkhyov vanka ena meka to janlancho. Tolia hoji to onpyayi li ji ocho n asana joni tae licho.

Tsüngon motsünga lo jo ota na oka thüngi "Aka eni li ji ochoang na ejoniya sana owo chetav ka" to ezoa owo cheta vanle, opo ha oyo oni na chiro oni liji, "Aka ha ango oni li shi ji lichung ero to tintayile" to okhen nsia khüta jonta vancho. "Aka okhana lia nino ayo sükhyimjo ji lo tsothekhe, ayio apo sükhyimjo ji lo tsokthevü ka" to ezocho. Oni na cheta vantasi mmyuale oka jo oyo sükhyimjo ji lo tsokthele sükhyimjo ji nnri küma elachoe sicho. Opo jo sükhyimjo ji ericho saküma ntia ntsso na echülikvüi sosi rheyicho. Hoji tolyui oka ji ompvü tae tssoe sio ji na elümoto nongra tsünga, ayio apoti ka je, ata jo echülikvüi apo ha ayo oni phana rheyithaka je to phyoa ompvü tae yingsüyingloa vancho. Hoji esüa ota na ha oka ji nchümi zesi elümoto nongra nchümcho. Ombo na opo thüngi ayio nchüngo chümpoe yipvüka to phyole opo na ango chümpoe jo ni khyuvü ka ti chongo to ezocho. Tole ngaro ji na ntia ntsso ka to ezoa chümpoe chongocho. Ombo na chümpoe echüi jiang na bhari, loksa tükta kokhüng jiang lo beno pyakae yiprae sirasi omboti kümi sia jo elümoto ombo kyua opo thüngi yile, opo na ana ni ezo ntsacho la nibobo yancho ka to ezocho.

Ojyua enyathüng to jo opo ha oyo oni na live tona wokochü tona honochü to tseni pia, heto ezocho "Echüi tona eküm to zhükvü lio ji yakchi sanati lanphei tsokhe". To ezoa echüi metaae na eküm metaae chiyithokcho. Tole ombo na otsotso ntio kvütvü tseni a picho sana to nchüma zehungo ji tsükona echüi metaae na lanphei zele live lo wokochü, honochü to tae tssocho. Küma elani tsenlani hansi eküm metaae na chiyi lanphe zele otsi tona wokoso, honoso to tssoa jo olani na tsoso oka thüngi oyi, "Aka echüi metaae jo nmhonka eni na vana evamo eküm metaae shi lo mmhomo ka", to rüa ezocho to motsü rütala.

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Engao shiang janlana:

a. Onpyayi li ji jo _____ joni vayicho **1**
   (i) opo ha omo oni na (iii) oyo ha ono oni na
   (ii) opo ha oyo oni na (iv) oyo ha omo oni na

b. Onpyayi lo ocho na opo sükhyimjo lo tsokthecho la? **1**
   (i) Eboeroro (iii) Khyingroe
   (ii) Eloeroro (iv) Loroe

c. Echüi jiang na müngale ntio kümra yicho la? **1**
   (i) Beno (iii) Bentsü
   (ii) Otssak (iv) Benjüm

d. Eboeroro ji na chümpoe chongole echüi jiang na ntio elhi tssota vancho la? **1**
   (i) Bhari tona Loksa tükta vancho (iii) Bhari tona onhyan tükta vancho
   (ii) Loksa tona okhyak tükta vancho (iv) Loksa tona onhyan tükta vancho

e. Oli teriv tae jontav ka to jo ocho na phyocho la? **1**
   (i) Opo (iii) Oyo
   (ii) Eloeroro (iv) Eboeroro

f. "Aka ha ango oni li shi ji lichung ero to tintayile" Shi jo ochoang na phyocho la? **1**
   (i) Omoang (iii) Onoang
   (ii) Onpyayi (iv) Opoang

g. Ntio tsso ji na onpyayi emhoknongra eküm lo tssoe sicho la? **2**

h. Yitsüng shiang nkhüma kümthoka: **1+1=2**
   (i) Echüi (ii) Mmyuathüng

SECTION – B (Eramo)

2. **Oküpoe pi elio shiang oni lo motsünga ethüngi, yitsüng 100 -150 harüma na erana:**

a. Ni yantsüro ji lo kyon jiang thüngi jonjia solar energy ji tsakae mizhü wondang ngkoho/nkümche elani mizhü wondang kakoyu (electricity bill) züngchak (limit) tsükona 'Easter Mirror' yithen etssüngchopvüi thüngi yiyenran erana.

Mekana **6**

b. Nzyu 2023 ji lo ni na kha evamo khaphen yanphen ki ji lo na jüli tsüngon (Cultural Day) jilo lankon eramo ji jüa khitacho. Osi hoji kvüto khitacho sana nte khaphen ki yithen kako ji lo theta yirüa (report) erana.

3. **Oküpoe pi elio shiang oni lo motsünga ethüngi, yitsüng 50 harüma na erana :**

a. Ni na kha vamo ji lo na jüli tssolanphyolan osi echanta lhinsüng ji lo oro ethev tsükona nte pvüopoang thüngi etsa kako erana.

Mekana **4**

b. Ekhiranta:
Kyon tsüka na eyip mmhona nyipo ji tsükona tsüktssen thüngi otsük zelo wocho. Tsüktssen tona nochonori ji to oni yuta lo oyi elonta jiang erana.

SECTION - C (Yinsanlan)

4. **Janlan pi elio jiang lona elamo ji erana :** **5x1=5**

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(a) Oli chencho sülo otssok jiang bukki ovo eniethium tssoa thüng mvüthan jiang zeta oli mvüthan jiang cheta rümphia woala towoe na tsacho. Shi jo ntio choro ji la?

(i) Ephi (ii) Chopük
(iii) Jikanika (iv) Chesü

(b) Orang mpong vena thüng jo ayio oki vancho.

(i) Ntangyao Eyieton (ii) Etovo Eyieton
(iii) Etsyuka Eyieton (iv) Nungka Eyieton

(c) Yitsüng 'Ndüngo' shi yichak esütao yitsüng ji jo;

(i) Ekoni (ii) Enhyano
(iii) Omhawoe (iv) Oküpoe

(d) Ombo na Christian tsükona yantso onte hanthokcho. (Shilo lhitssoyi ji jo.)

(i) Ombo (ii) Christian
(iii) Yantso (iv) Hanthokcho

(e) Onte ki jo khaphen ki ji mhatongoe tssocho. (Shi lo mhachungyi ji jo)

(i) Onte (ii) Khapen
(iii) Mhatongoe (iv) Tssocho

5. **Ejüngi elio shiang Tepfüyi khi pyingthoka.** **2x1=2**

a. Abemo na _____ eranala.
b. _____ na sanphia

6. **Yitsüng 'Noa' shi na yichak eni pia yiren nsüngrüa.** **2x1=2**

7. **Yiren shiang renthangyi kümthoka.** **2x1=2**

a. Enyathüng jo opo na yithen kako khathakcho to ombo na phyocho.
b. Onte na khvüringashü ji T.V. lona zeta vancho to ombo na phyocho.

8. **Yiren pi elio shiang yitsünga tae na janlana** **2x1=2**

a. Elhi ntia ntsso na oyam mo tae enghikae evan.
b. Kyon kholo oyi nsandemo ji.

9. **Ejüngi elio shiang etsyuchi epio ephani na janlana** **2x1=2**

a. Ana hunga jo ombo otsi ji _____ (Past Perfect Tense khi pyingthoka)
b. Onte na mangsü _____ sala. (Future Continuous Tense khi pyingthoka)

10. **Yiren shiang Lotha yi na Khophia**. **5x1=5**

a. What a beautiful house you have!
b. He spoke very softly.
c. No need to worry.
d. Who broke the window?
e. Why are you absent-minded?

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SECTION – D (Eranntolan)

11. **Engao shiang akvülo elamo ji ethüngi janlana:** **5x1=5**

a. Nzyu nzo eni yithako ji yuta lo saya tona ngkohoche to elio ji jo ntio meta ae la?

(i) Rome (ii) Europe
(iii) Australia (iv) America

b. "Ehe…hmmm… shi jo nkolo a tsoenyi ji esükhüng kana," yiren shi jo ocho na phyocho la?

(i) Ranphan na (ii) Onjeni lo eramo ji na
(iii) Onjeni lo nongho ji na (iv) Humchipili na

c. Elhi Etssoeten olan mongo jiang ekhao ji jo ocho na khophia erancho la?

(i) Y.Y. Kikon (ii) K.R. Murry
(iii) N. Ezung (iv) Orenyemo Tungoe

d. "Tsensoyia" to ephyo ji yichak jo

(i) Tzüthechia (ii) Thenhyacho
(iii) Ejümkacho (iv) Lüngthacho

e. "Yenjania" to ephyo ji yichak jo

(i) Ezoyia (ii) Phyothoka
(iii) Yenjanile (iv) Jonjiyia

Oküpoe engao shiang yitsüng 20 – 25 harüma na janlana: **6x2=12**

12. Ntio tsükona oyamo kyon jiang na oyan pyona tsamvü methakcho la?
13. Ntio tsükona enhunga kyon jiang na ovüngthüng lona sikata harishia vanala?
14. Elhingo tona nzanchi to jo kvütolyui kheti tssocho la?
15. Pikhüchak so jiang jo kvüto tsena la?
16. Khensoe ji na Phencho vara, limhatsü vara nmhon, shi tsükona kyon jiang thüngi ntio ntssonga ezocho la?
17. a. Yitsüng shiang jo pofü ekhao lona khichecho shing yichak pia.

i. Ngkonrhüa ii. Mponi na

Mekana

b. "Erontong etssov jo" to ephyo ji eroroa ejüa.

Oküpoe engao shiang yitsüng 40 – 50 harüma na janlana: **2x4=8**

18. a. Pvüji Khüngtsüta Hohosoying (U.N.O) jiang elhilan jiang erana.

Mekana

b. Elhi etssoe olan mezhüoto jiang erana. Onte na ete tsükona ntio elhi tssoa la? Ntio tsükona onte na elhi ntssochecho la?

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19. a. Chungiyi "oshomo merangcho" ji lo, loroe ji na khyingroe ji chokacha alo nchokacho yilan ezocho sana mmhona eroroa erana.

Mekana

b. Chungiyi "pofü" ji lo khensoe ji ephani na jo.

i) Pofü ji jo ntio esüa to phyocho la?

ii) Nti Naga oyikosen hetvü ni lyingcho ato! Shi mmhona eroroa erana.

Oküpoe engao shiang yitsüng 60 – 90 harüma na janlana: **3x5=15**

20. a. Evo tona kongken ji to jo ntio na kümcho la? Motsü ji mmhona erana?

Mekana

b. "Rhyuven Tokhü jo kvüthüng khiala?"
Rhyuven Tokhü tona mojükhorüm to echümpota jo ntio la?
Mojükhorüm yichak jo ntio la?

21. Chungiyi "Wokha yan Etsso Khen" yintssen ji erana.

22. a. *"Ete oren shilo jo, yantaro azüm kila,*
Nti yan ha nehü yan nli la.
Poni lo tssolia ti khonda na van le,
Jeni yeni lo ha ti khonda na van le,
Phirenyanren lo ha ti khonda le,
Phonglan yinsüng sana nchü na vana ka,
Zhükhvü jüying sana nchü na vana ka,
Enong ngi tssüngtsürontsü samona chüa kila
Ralo yutso jotani ezao ha chüa kila,
Eta no maküm evamo kila"

i) "Yantaro azüm" kila to yichak jo ntio la? (1)

ii) Ochoang thüngi ti khonta na vanta le to ezocho la? (2)

iii) Echüo tona nchüo tsütsailan jiang jo ntio ntio la? (2)

Mekana

b. Ngaro ji opo oyoang na echüli vandamvü ji thüngi kvüto oyi yencho la? Echüli vandamvü ji na ngaro ji pvüopo thüngi kvüto oyi yencho la? (2+3=5)

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Total number of printed pages : 6 *NB-T/H/1*

2024

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 16 main questions.

iii) Internal choice has been provided in some questions.

iv) Write the correct question number in your answer sheet to indicate the option being attempted.

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

SECTION – A (**vifBr ck/k**)

1. **fuEufyf[kr xn;k'k dk i<dj iN x, i'uk d mRrj fyf[k,%&**

ifjJe gh lQyrk dh dqth gA ifjJe dju l ef'dy-l-ef'dy dk;l Hkh liUu gk tkrk g, tcfd ifjJe l th pjku l doy vlQyrk gh gkFk yxrh gA ifjJe u dju dk gh ifj.kke g fd ijh{kk 'kCn d uke l gh vf/kdk'k fon;kfFk;k dk fnu e rkj fn[kkb nu vkjHk gk tkr gA dN fon;kkFkh ij o"k ;ktukcn/k rjhd l ifjJe djr gA mUg ijh{kk d le; fdlh idkj dh dfBukb dk lkeuk ugh djuk iMrkA tk fon;kFkh ij o"k xlickth, lj-likVk, vkokjkxnh vkfn e viuk le; u"V djr g, mUg ijh{kk d fnuk e lkr-tkxr lHkh txg ijh{kk dk vkrd fn[kkb nrk g A ijh{kk dh pukrh dk lkeuk dju d fy, o"k Hkj ,dkxfpr gkdj fuf'pr le;kulkj v/;;u djuk vko';d gA ijh{kk e fon;kfFk;k dk le;-lhek dk /;ku j[kr g, i'uk dk gy djuk pkfg,A bll 'kr-ifr'kr lQyrk feyxhA ijh{kkfFk;k dk viuk vkRefo'okl detkj ugh iMu nuk pkfg,A ijh{kk nu l ,d ?kVk io fdlh Hkh iLrd, ukVcd vkfn ij /;ku ugh nuk pkfg,A i'u-i= gy djr le; lcl igy mu i'uk dk gy djuk pkfg,, ftUg lcl vPNh rjg fd;k tk ldrk gA bld ckn mu i'uk dk gy djuk pkfg,, tk de r;kj gkA bl idkj ijh{kk d dfBu fnuk e ;ktukcn/k :lk l dk; djr g, lQyrk ikIr dh tk ldrh gA

a. **lQyrk dh dqth D;k g ** **1**

(i) **deghu** (ii) **vkylh** (iii) **lkfjJe** (iv) **dk;j**

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b. vlQyrk dc gkFk yxrh gS \ 1

(i) ifjJe djus ls (ii) egur u djus ls

(iii) ef'dy dk;Z djus ls (iv) bues ls dkbZ ugh

c. ijh{kkfFk;ksa dks fnu esa rkjs dc fn[kkbZ nus yxrs gSa \ 1

(i) ifjJe djus ls (ii) ifjJe u djus ls

(iii) ,dkxzfpr gksdj v/;;u djus ls (iv) ;qorukcn/k rjhds ls ifjJe

d. dqN fo|kFkh fdl rjhds ls ifjJe djus yxrs gSa \ 1

(i) v0;ofLFkr rjhds ls (ii) le;kuqlkj

(iii) ;qorukcn/k rjhds ls (iv) bues ls dkbZ ugh

e. fdls ijh{kk ds le; dfBukbZ;ksa dks lkeus ugh djuk iMrk gS \ 1

(i) ;qorukcn/k rjhds ls ifjJe (ii) vkylh iÑfr ds fon;kFkh

(iii) xlicksth vkSj lqj-likVk ls (iv) vkokjksxnh esa le; u"V djus ls

f. ijh{kkFkh dks viuk D;k detkSj ugh iMus nsuk pkfg, \ 1

(i) iqj.kk (ii) vkRefo'okl (iii) bTtr (iv) lqlqnuk

g. ijh{kkFkh dks ijh{kk ds le; vkrqd D;ksa fn[kkbZ nsrk gS \ 2

h. ijh{kkFkh dks 'kr-ifr'kr lQyrk dc feysxh \ 2

Section - B (y[ku)

2. fuEufyf[kr esa ls fdlh ,d i'u dk mRrj 100&150 'kCnksa esa fyf[k,%& 6

a. vkids {ks= ds fctyh dh leL;k o mlls mRiUu dfBukbZ;ksa dk fooj.k nsrs gq, fdlh lekpkj i= ds lEikndd dks i= fyf[k,A

vFkok

vki XYZ fon;qky; dh dyk ,oa lkLÑfrd ifj"kn ds lfpo ehu/jkt gSA vki ds fon;qky; esa 14 flrEcj dks fgUnh fnol euk;k x;kA bl lqHkl esa lHkk ds vk;ksktu dk lf{kIr iqfrosnu fyf[k,A

3. fuEufyf[kr esa ls fdlh ,d i'u dk mRrj 50&100 'kCnksa esa fyf[k,%& 4

a. fe= dks xeZ dh NqVVh viuk lkFk fcrkus ds fy, vkeaf=.k djrs gq, ,d i= fyf[k,A

vFkok

b. Hkkjr vkSj Jhyadk ds chp gks jgs gksdh ep ij nks fe=ksa ds chp gks jgh ppkZ dk ,d lokn fyf[k,A

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Section - C (0;kdj.k)

4. fuEUfyf[kr fodYik e l lgh mRrj pudj fyf[k,%&

(a) "mYykl" fdl lf/k dk mnkgj.k g \ 1

(i) Loj lf/k (ii) 0;tu lf/k

(iii) folx lf/k (iv) bue l dkb ugh

(b) ";Fkkle;" 'kCn e dku lk lekl g \ 1

(i) rRi:"k (ii) cgchfg

(iii) de/kkj; (iv) v0;;hHkko

(c) 'e, ij' fdl dkjd dk fpgu g \ 1

(i) vf/kdj.k (ii) viknku

(iii) lck/ku (iv) dj.k

(d) okP; d .... Hkn gkr g \ 1

(i) nk (ii) rhu

(iii) pkj (iv) ikp

(e) 'iN&rkN' e dku lh iu:fDr g \ 1

(i) i.k (ii) vi.k

(iii) vudj.k (iv) dkb ugh

5. fuEufyf[kr 'kCnk d nk-nk i;k;okph 'kCn fyf[k,%& 1+1=2

(a) dey (b) ior

6. fuEufyf[kr 'kCnk d foyke 'kCn fyf[k,%& 4x½=2

(a) ekfyd (b) lir (c) ifo= (d) tfVy

7. fuEufyf[kr 'kCnk d fyx cnfy,%& 4x½=2

(a) o/k (b) ukjh (c) egk'k; (d) ex

8. fuEufyf[kr egkojk d vFk fy[kdj okD;k e i;kx dhft, %& 2

(a) Qyk- Qyk gkuk

(b) rku nuk

9. dk"Bd e nh x;h fØ;k d lgh :i l okD;k d [kkyh LFkku Hkfj, %& 2

(a) Ñi;k e> ekQ dj ----------A (nuk)

(b) ldl e tkdj u ykxk dk cgr ---------- A (gluk)

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10. fuEufyf[kr okD;ksa dk fgUnh esa vuqokn dhft,%&

(a) Congratulations for your great success! **1**

(b) I profited by your valuable advice. **1**

(c) Come to my house. **1**

(d) When did you visit the Museum? **1**

(e) Never tell a lie. **1**

Section - D (lkfgR;)

11. fuEufyf[kr fodYiksa esa ls lgh mRrj pqudj fyf[k,%&

(a) **pUu-eUu ds firk dk D;k uke Fkk ** **1**

(i) **xtk/kj ckcw** (ii) **jk; fot; cgknqj**

(iii) **x.k'kh** (iv) **jkethey**

(b) **eUu HkkMkjh dk tUe dgk gqvk Fkk ** **1**

(i) **e/;izns'k** (ii) **jktLFkku**

(iii) **xqtjkr** (iv) **mRrj izns'k**

(c) **lkfgfR;d lHkk esa Hkk"k.k nsus ds fy, dkSu [kMk gqvk ** **1**

(i) **r#.k fon;kFkh** (ii) **ys[kd**

(iii) **lqpkyd** (iv) **vfrfFk**

(d) **deZohj D;k ns[kdj ugha ?kcjkrs ** **1**

(i) **lqqi** (ii) **vkx**

(iii) **fo?u vkSj ck/kk** (iv) **ikuh**

(e) **^e/kq'kkyk' fdl dfo dh jpuk gS ** **1**

(i) **ukxktqZu** (ii) **v;k/;kfllg mik/;k; 'gfjvk/k'**

(iii) **johUnukFk Bkdqj** (iv) **gfjo'k jk; 'cPpu'**

12- fuEufyf[kr iz'uksa ds mRrj 20-25 'kCnksa esa fyf[k,%&

(a) **Qjhoksy ds xyh ds cPpks ij eerk D;ksa Fkh ** **2**

(b) **fdl yyd us lkek cqvk dks viuh eqr iq= dh ,dek= fu'kkuh cqqus dk foo'k dj fn;k ** **2**

(c) **xtk/kj ckcw dks vdsys D;ksa jguk iMk Fkk ** **2**

(d) **HkkfMk;k orZeku dky esa fdldk ifrfuf/kRo djrk gS ** **2**

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(e) vdky d ckn vUu d nku vku l ?kj-Hkj dh vk[kk e ped D;k vk x;h \ 2

(f) viuh jpukvk e fcgkjh u fdl Hkk"kk dk i;kx fd;k g \ 2

13- fuEufyf[kr i'uk d mRrj 40-50 'kCnk e fyf[k,%& 4x2=8

(a) ;jki d iHkko d dkj.k vkt x#-f'k"; lc/k e D;k vUrj vk x;k g \

vFkok

uhy ,o gj jx d fl;kjk u HkfM;s d i{k e D;k rd fn; \

(b) ouk dh l?kurk dk o.ku dfo u fdu 'kCnk e fd;k g \

14- fuEufyf[kr in;k'k dk i<dj iN x, i'uk d mRrj fyf[k,%&

" rjk nork noky; e ugh gA
Tkgk etnj iRFkj QkMdj jkLrk r;kj dj jg g,
rjk nork ogh pyk x;k g !
o /ki –cjlkr e ,d leku rir->ylr g,
mud nkuk gkFk feVVh e lu g
mudh rjg lUnj ifj/kku R;kxdj feVVh-Hkj jkLrk l tk "

(i) Rkjk nork dgk ugh g \ 1

(ii) Ektnj iRFkj QkMdj D;k r;kj dj jg g \ 1

(iii) etnj dc ,d leku rir->ylr g \ 1

(iv) mud nkuk gkFk fdle lu g \ 1

(v) 'ifj/kku' 'kCn dk vFk crkb, A 1

15- fuEufyf[kr xn;k'k dk i<dj iN x, i'uk d mRrj fyf[k,%&

(a) ",d fnu dh ckr g xko d lHkh ykxk u fu'p; fd;k fd o nlj fnu unh ij tkdj eNfy;k yk;x vkj xko e t'u euk;xA tc lHkh ;od txy l 'vkuk' bdVBk djr g, unh ij igp x;, rc xkookyk u feydj 'vkuk' dVuk vkjHk fd;k A blh fnu xkookyk d jp g, "kM;= d vulkj vkjek dk ekjuk FkkA lc ykxk u lkph-le>h pky d vulkj vkjek dk lcl igy 'vkuk' dVu d fy, puk vkj mldk ;'kxku fd;kA T;k gh vkjek u ely l 'vkuk' dVuk 'k: fd;k R;k gh ihN l fdlh u mld

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flj ij e|ly l| i|gkj dj fn;kA bl i|dkj yk|dxhr xkr| g|, xk|ookyk| u|
'vk|uk' d| lkFk-lkFk vkjek dk Hkh d|V-d|Vdj unh e| cgk fn;kA"

(i) ,d fnu xk|o d| yk|xk| u| D;k fu'p; fd;k \ 1

(ii) Xkk|ookyk| u| feydj D;k d|Vuk vkj|Hk fd;k \ 1

(iii) Xkk|ookyk| u| fdldk ekju| dk "kM|;|= cuk;k \ 1

(iv) Xkk|ookyk| u| lcl| igy| 'vk|uk' d|Vu| d| fy, fdldk p|uk \ 1

(v) Xkk|ookyk| u| yk|dxhr xkr| g|, D;k fd;k\ 1

vFkok

(b) ",d lkfgfR;d lHkk e| ,d r#.k fon|;kFkh| Hkk"k.k n|u| d| fy, [kMk g|vk, ij
mldk Hkk"k.k tek ugh- og ?kcMk x;kA Jk|rkvk| u| rkfy;k| ihVh, nl-ik|p
okD; dgu| d| ckn gh ml| c|B tkuk iMkA e|p ij mldh d|lh| gekjh d|lh|
d| ikl gh Fkh D;k|fd ge| Hkh ml lHkk e| ck|yu| dk fue|=.k FkkA viuk
ilhuk ik|Nr| g|, mlu| e|>l| /khj| l| dgk:"

(i) r#.k fon|;kFkh| fdl lHkk e| Hkk"k.k n|u| d| fy, [kMk g|vk \ (1)

(ii) fdldk Hkk"k.k tek ugh| \ (1)

(iii) fdlu| rkfy;k| ihVh|\ (1)

(iv) fon|;kFkh| dk| fdru| okD; ck|ydj c|B tkuk iMk\ (1)

(v) i|Lr|r i|fDr fdl ik|B l| yh xb| g| \ (1)

16- fuEufyf[kr e| l| fdlh ,d in; [k|M dh l|nHk| rFkk i|lx lfgr 0;k[;k
dhft,%& 5

(a) ^^jfgeu nf[k cM|u dk, y?k| u nhft;| MkfjA
Tkgk| dke vko| l|b|, dgk dj| rjokfj AA^^

vFkok

(b) "tx foHkke; rk| u dkyh jkr e|jh,
e| foHkke; rk| ugh| txrh v|/k|jh,"

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Total number of printed pages -7

2024
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 main questions.*

(iii) *Internal choice has been provided in some questions.*

(iv) *Write the correct question number in your answer sheet to indicate the option being attempted*

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

বিভাগ – 'ক'

পাঠ (Reading)

1. **নিচের পাঠটি মনোযোগ দিয়ে পড় :**

আনন্দবাজার অনলাইন ডেস্ক :বেঙ্গালুরু: শেষ আপডেট: ৩০ অগস্ট ২০২৩ ১৪:৩১

চাঁদে এক সপ্তাহ কাটিয়ে ফেলল চন্দ্রযান-৩-এর রোভার প্রজ্ঞান। তার হাতে বাকি আরও এক সপ্তাহ। এর মাঝে 'অভিযানের সেরা ছবি' উঠেছে প্রজ্ঞানের ক্যামেরায়। বুধবার টুইটে সেই ছবি প্রকাশ করেছে ইসরো। সেই ছবিতে আসলে ক্যামেরাবন্দি হয়েছে ইসরোর ল্যান্ডার বিক্রম।

ইসরো টুইটে জানিয়েছে, বুধবার সকালেই বিক্রমের একটি ছবি তুলেছে প্রজ্ঞান। একে 'অভিযানের সেরা ছবি' (ইমেজ অফ দ্য মিশন) তকমা দিয়েছেন বিজ্ঞানীরা। ছবিটি উঠেছে রোভারের নেভিগেশন ক্যামেরাতে।

ইসরো জানিয়েছে, এই নেভিগেশন ক্যামেরাটি বিশেষ ভাবে চন্দ্রযান-৩-এর জন্যই তৈরি করা হয়েছে। এই ক্যামেরা তৈরি হয়েছে ইলেকট্রো-অপটিক্স সিস্টেমের গবেষণাগারে।

প্রজ্ঞানের ক্যামেরায় তোলা বিক্রমের ছবিতে দেখা যাচ্ছে, চাঁদের অমসৃণ মাটিতে কয়েক হাত দূরে দাঁড়িয়ে রয়েছে ল্যান্ডারটি। ছবিটি বড় করে ইসরো দেখিয়েছে, ল্যান্ডারের নীচে চ্যাস্টে এবং ইলসা

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পেলোডদু'টিকেও দেখা যাচ্ছে। পৃথিবীর সময় অনুযায়ী, বুধবার সকাল ৭টা ৩৫ মিনিটে এই ছবিটি তোলা হয়েছে।

এর আগে মঙ্গলবার সন্ধ্যায় ইসরো টুইট করে জানিয়েছিল, চাঁদের দক্ষিণ মেরুর মাটিতে সালফারের উপস্থিতির প্রমাণ পেয়েছে রোভার প্রজ্ঞান। এ ছাড়াও মিলেছে অ্যালুমিনিয়াম, ক্যালসিয়াম, লোহা, ক্রোমিয়াম, টাইটেনিয়াম, ম্যাঙ্গানিজ, সিলিকন, অক্সিজেনের অস্তিত্ব। ইসরো জানিয়েছিল, হাইড্রোজেনের খোঁজ চলছে চাঁদের ওই অঞ্চলে। প্রজ্ঞানে রয়েছে লেজ়ার-ইনডিউসড ব্রেকডাউন স্পেক্ট্রোস্কোপ (এলআইবিএস)। নমুনা সংগ্রহ করে তা লেজ়ার প্রযুক্তির মাধ্যমে পরীক্ষা করে এই প্রযুক্তি। এটিও ইলেকট্রো-অপটিক্স সিস্টেমের গবেষণাগারে তৈরি করা হয়েছে।

গত বুধবার সন্ধ্যা ৬টা ৪ মিনিটে চাঁদের দক্ষিণ মেরুর কাছে নেমেছিল চন্দ্রযান-৩-এর ল্যান্ডার। পরের দিন ভোরে ইসরো জানায়, ল্যান্ডারের পেট থেকে সফল ভাবে বেরিয়েছে রোভার প্রজ্ঞান। সেটি ঘুরে ঘুরে চাঁদের মাটিতে অনুসন্ধান চালাচ্ছে। ছ'চাকা বিশিষ্ট এই রোভারের গতি সেকেন্ডে এক সেন্টিমিটার মাত্র। ১৪ দিন অর্থাৎ এক চন্দ্রদিবস পর্যন্তই তার আয়ু। চাঁদে সূর্য ডুবে গেলে আর এই যন্ত্র কাজ করবে না।

নির্দেশ অনুসারে নিচের প্রশ্নগুলির উত্তর দাও :

(ক) খবরটি কবে প্রকাশিত হয়েছে? **1**

(i) ৩০ শে আগস্ট (ii) ৩১ শে আগস্ট

(iii) ১ লা সেপ্টেম্বর (iv) ২রা অক্টোবর

(খ) চন্দ্রযান-৩ এর নাম কী? **1**

(i) প্রজ্ঞান (ii) বিজ্ঞান

(iii) প্রতিভা (iv) পৃথ্বী

(গ) বিক্রম কী? **1**

(i) ল্যাণ্ডার (ii) রকেট

(iii) চন্দ্রযান (iv) স্যাটেলাইট

(ঘ) কাকে অভিযানের সেরা ছবির তকমা দেওয়া হয়েছে? যে ক্যামেরায় ছবিটি তোলা হয়েছে, সেটি কোথায় তৈরি করা হয়েছে? **1+1 =2**

(ঙ) ছবিটি কোন বারে তোলা হয়েছে? **1**

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(i) সোমবার (ii) মঙ্গলবার

(iii) বুধবার (iv) শুক্রবার

(চ) রোভারটির আয়ু কতদিন? **1**

(i) দশ দিন (ii) বারো দিন

(iii) চোদ্দ দিন (iv) এক মাস

(ছ) ব্যাসবাক্য সহ সমাস নির্ণয় করো : গবেষণাগার **1**

(জ) চাঁদের দক্ষিণমেরুর মাটিতে কোন কোন জিনিসের অস্তিত্ব পাওয়া গেছে? **2**

বিভাগ – 'খ'

রচনা ও নির্মিতি (Writing and Composition)

2. নিচের যে কোনও একটি বিষয় বেছে নিয়ে ১০০ থেকে ১৫০ টি শব্দের মধ্যে উত্তর দাও :

(ক) তুমি ৭/১ পল্লি, ক্লাব রোড, হায়েদ্রাবাদ-১৩-র বাসিন্দা রোহিত/ মেঘা। তোমাদের এলাকায় সরবরাহি জলের কলে বিগত কয়েকদিন ধরে অপরিস্রুত ও অপর্যাপ্ত জল সরবরাহ করা হচ্ছে, সেই বিষয়ে অভিযোগ জানিয়ে 'দ্য হায়েদ্রাবাদ টাইমস্'- এর সংবাদপত্রের সম্পাদককে পোস্ট বক্স ৩৫০, হায়েদ্রাবাদ- ১ – এই ঠিকানায় একটি চিঠি লেখো। **6**

অথবা

(খ) তুমি গুয়াহাটি আসাম উপত্যকা উচ্চ বিদ্যালয়ের পরিবেশবান্ধব ক্লাবের ছাত্র সম্পাদক আদিত্য / সপ্তপর্ণা, গত ২৬শে জানুয়ারি তোমাদের বিদ্যালয়ে উক্ত ক্লাবের উদ্যোগে একটি স্বেচ্ছায় রক্তদান শিবিরের আয়োজন করা হয়েছিল, সেই বিষয়ে একটি প্রতিবেদন রচনা করো।

3. ন্যূনাধিক ৪০ থেকে ৫০ টি শব্দে নিচের যে কোনও একটি প্রশ্নের উত্তর দাও :

(ক) তুমি কাটিহার রেলওয়ে স্কুলের সাংস্কৃতিক বিভাগের শিক্ষার্থী সম্পাদক নির্মল/ নম্রতা, তোমাদের স্কুলের 'স্বাধীনতা দিবস' উপলক্ষে আয়োজিত একটি সাংস্কৃতিক অনুষ্ঠানের একটি আমন্ত্রনপত্র লেখো। **4**

অথবা

(খ) বর্তমান প্রজন্মের অতিরিক্ত সামাজিক মাধ্যমের প্রতি আসক্তি নিয়ে দুই বন্ধু সাহিল ও জাহিদা-র মধ্যে কাল্পনিক সংলাপ লিপিবদ্ধ করো।

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বিভাগ – 'গ'

ব্যাকরণ ও অনুবাদ (Grammar & Translation)

4. নিচের বিকল্পগুলির থেকে সঠিক উত্তরটি বেছে নাও :

(ক) একাধিক পদ মিলে গঠিত হয় — **1**

(i) সমস্তপদ (ii) সমস্যমান পদ

(iii) পূর্বপদ (iv) উত্তরপদ

(খ) বাচ্য কত প্রকার? **1**

(i) দুই (ii) তিন

(iii) চার (iv) ছয়

(গ) ভাঁড়ে মা ভবানী মানে – **1**

(i) শূন্য ভাণ্ডার (ii) মা দুর্গার ভাণ্ডার

(iii) দশকর্মা ভাণ্ডার (iv) লক্ষ্মীর ভাণ্ডার

(ঘ) 'জয়সূচক উৎসব' কে এককথায় বলে — **1**

(i) জয়ন্তী (ii) জিন্দাবাদ

(iii) জয়গুরু (iv) সঞ্জয়

(ঙ) 'রাজপথ' – এই সমস্তপদটির ব্যাসবাক্য হবে — **1**

(i) রাজার পথ (ii) রাজা নির্মিতি পথ

(iii) রাজা ও পথ (iv) পথের রাজা

5. বাচ্য নির্ণয় করো :

(i) কাজটা ভালো দেখায় না। **1**

(ii) কী বিপদেই পড়া গেল! **1**

(iii) আমগুলো পেকে গেছে? **1**

6. এক কথায় প্রকাশ করো :

(i) চৈত্র মাসের ফসল **1**

(ii) জানবার ইচ্ছা **1**

7. ব্যাসবাক্য সহ সমাস নির্ণয় করো :

(i) পীতাম্বর **1**

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(ii) অগ্রজ **1**

(iii) পাঁচফোড়ন **1**

8. সার্থক বাক্যে প্রয়োগ করো :

(i) সাত খুন মাপ **1**

(ii) হিতে বিপরীত **1**

9. বাংলায় অনুবাদ করো :

(i) What a beautiful house you have! **1**

(ii) He spoke very softly. **1**

(iii) No need to worry. **1**

(iv) Who broke the window? **1**

(v) Why are you absent-minded? **1**

বিভাগ – 'ঘ'

সাহিত্য – গদ্যাংশ ও পদ্যাংশ (Literature)

10. নিচের বিকল্পগুলির থেকে সঠিক উত্তরটি বেছে নাও :

(ক) পরাণ মণ্ডল কে ছিল? **1**

(i) জমিদার (ii) কৃষক

(iii) মহাজন (iv) গোমস্তা

(খ) 'অদ্ভুত আঁধার এক' কবিতাটি কোন কাব্যগ্রন্থের অন্তর্গত? **1**

(i) ঝরাপালখ (ii) মনবিহঙ্গম

(iii) রূপসী বাংলা (iv) ধূসর পাণ্ডুলিপি

(গ) 'বান' গল্পে কোন পুজোর কথা আছে? **1**

(i) মনসা পুজো (ii) গঙ্গা পুজো

(iii) রান্না পুজো (iv) দুর্গা পুজো

(ঘ) 'বাবরের প্রার্থনা' কবিতায় কার জীবনের প্রার্থনা করা হয়েছে? **1**

(i) বাবরের (ii) হুমায়ুনের

(iii) সেলিমের (iv) খুরমের

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(ঙ) অভাগীর স্বামীর নাম কী? **1**

(i) রসিক বাঘ (ii) অধর রায়

(iii) ঈশ্বর নাপিত (iv) ঠাকুরদাস

২০-২৫ টি শব্দে নিচের যে কোনও ছ'টি প্রশ্নের উত্তর দাও :

11. "বাজারে দুদ সস্তা হলো।"— কোন পাঠের অংশ? দুধ সস্তা হল কেন? **1+1 =2**

12. কালকেতুর ছোট গ্রাসকে কীসের সাথে তুলনা করা হয়েছে? খাওয়ার সময় তার গলা দিয়ে কেমন শব্দ হত? **1+1 =2**

13. "পরাণ মণ্ডল আপনাকে শালা বলিয়াছে।" – কে কখন এই অভিযোগ করতো? **2**

14. 'বলাই' পাঠ অনুসারে বস্তুত আমরা কোন পদার্থকে মানুষ বলে থাকি? **2**

15. কবি বলরাম দাস কার ভক্ত ছিলেন? তাঁর রচিত পদ কোন গ্রন্থে স্থান পেয়েছে? **1+1 =2**

16. "কিন্তু গৌরাঙ্গ এলেন না।" – গৌরাঙ্গ কোথায় এলেন না? কেন এলেন না? **1+1 =2**

17. তরু কীসের জন্যে কান পেতে ছিল? তরু কীভাবে তার ভাষা ব্যক্ত করত? (1+1 =2)

কম – বেশি ৪০ থেকে ৫০ টি শব্দে নিচের যে কোনও দু'টি প্রশ্নের উত্তর দাও :

18. "– মনে হইল না এ কোন শোকের ব্যাপার —"

(i) কোন পাঠের অংশ? **1**

(ii) লেখকের নাম কী? **1**

(iii) কোন প্রসঙ্গে এ কথা বলা হয়েছে? **2**

19. "তার মাঝে নবঘনশ্যাম।" –

(i) কোন কবিতার অংশ? (1)

(ii) নবঘনশ্যাম বলতে কাকে বোঝানো হয়েছে? (1)

(iii) কাদের মাঝে কখন নবঘনশ্যাম ছিলেন? (2)

20. "অদ্ভুত আঁধার এক এসেছে এ পৃথিবীতে আজ," –

(i) কোন কবিতার অংশ? **1**

(ii) আঁধার 'অদ্ভুত' কেন? **1**

(iii) অদ্ভুত আঁধারে কী কী পরিলক্ষিত হচ্ছে? **2**

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প্রায় ৬০-৯০ টি শব্দে নিচের প্রশ্নগুলির উত্তর দাও :

21. (ক) "দুর হৈতে ফুল্লরা বীরের পাল্য সাড়া।" —

(i) কোন পাঠের অংশ? **1**

(ii) কবির নাম কী? **1**

(iii) কোন মূল কাব্যগ্রন্থ থেকে সংকলিত? **1**

(iv) 'বীর' বলতে কাকে বোঝানো হয়েছে? **1**

(v) বীরের সাড়া পেয়ে ফুল্লরা কী করেছিল? **1**

অথবা

(খ) "আমারই বর্বর জয়ের উল্লাসে
মৃত্যু ডেকে আনি নিজের ঘরে?" –

(i) কোন কবিতার অংশ? (1)

(ii) কে এই প্রশ্ন করেছেন? (1)

(iii) কাকে এই প্রশ্ন করেছেন? (1)

(iv) কখন ও কেন বক্তার এরকম মনে হয়েছে? (2)

22. (ক) "এর দাম বিশ ঘা জুতো" –

(i) কোন পাঠের অংশ? **1**

(ii) লেখকের নাম কী? **1**

(iii) কে বলেছে? **1**

(iv) কাকে উদ্দেশে করে বলেছে? **1**

(v) কীসের দাম বিশ ঘা জুতো? **1**

অথবা

(খ) "তাদের সঙ্গে ওর কী যে একটা বয়স্য ভাব তা ও কেমন করে প্রকাশ করবে?

(i) কোন পাঠের অংশ? (1)

(ii) এখানে 'তাদের' বলতে কাদের বোঝানো হয়েছে? (1)

(iii) 'ওর'ই বা কে? (1)

(iv) 'তাদের' ও 'ওর' চিরকালের সম্পর্কটা কী তা আলোচনা কর। (2)

23. 'জগদীশচন্দ্র' কবিতাটির নামকরণের সার্থকতা বিচার করো। **5**

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Total number of printed pages: 6 *NB-T/AE/1*

2024

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 21questions.

iii) Internal choice has been provided in some questions.

iv) Write the correct question number in your answer sheet to indicate the option being attempted.

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

Unit – I (Reading)

1. **Read the passage and answer the questions that follow:**

Mud is a gorilla who lives in a cage at a mall. He has spent twenty-seven years either living in a human home or at the mall.

I was born in a place humans call Central Africa, in a dense rainforest so beautiful no crayons could ever do it justice. Gorillas do not name their newborns right away, the way humans do. We get to know our babies first. We wait to see hints of what might yet be.When they saw how much she loved to chase me around the forest, my parents decided on my twin sister's name –Tag.

Oh, how I loved to play tag with my sister! She was nimble, but when I got too close, she would leap on to my unsuspecting father. Then I would join her and we would bounce on his belly, until he gave us the grunt, a sound that meant, 'Enough!' That game never got old although my father might have disagreed.

It did not take long for my parents to find my name. All day long, I made picture. I drew on rocks and bark and my poor mother's back. I used sap from leaves. I used the juice from fruits. But mostly, I used mud. And that is what they called me- Mud.

To a human, Mud might not sound like much. But to me, it was everything.

On the basis of your reading of the passage, answer the following questions:

a. How did Mud get his name? **2**

Choose the correct option from the alternatives given: 3x1=3

b. Why was Mud's twin sister named as Tag?

i. Because he loved playing with his sister.

ii. Because she loved to chase Mud.

iii. Because she picked the name herself.

iv. Their father disagrees with any other name.

c. Why do gorillas not name their babies right away?

i. They wait to get to know their babies first.

ii. They don't name their babies.

iii. Their babies choose their own names.

iv. They have to perform a ceremony to be named.

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d. Which among the words is a synonym of the word 'grunt'?
   i. Whisper iii. Laughter
   ii. Scream iv. Grumble

2. **Read the poem and answer the questions that follow:**

If you can't be a pine on the top of the hill
Be a scrub in the valley- but be
The best little scrub by the side of the rill;
Be a bush if you can't be a tree.

If you can't be a bush be a bit of a grass,
And some highway happy make;
If you can't be a muskie then just be a bass-
But the liveliest bass in the lake.

We can't all be captains, we've got to be crew
There's something for all of us here,
There's big work to do, and there's lesser to do
And the task you must do is the near.

If you can't be a highway then just be a trail
If you can't be the sun be a star;
It isn't by size that you win or you fail-
Be the best of whatever you are! (Douglas Mallock)

On the basis of your reading of the poem, choose the correct answer: 3x1=3

a. What is the poet's tone in the poem?
   i. Religious iii. Melancholic
   ii. Optimistic iv. Desperate
b. What does the poet want us to be in whatever job/work we do?
   i. The laziest iii. The most honest
   ii. The earliest iv. The best
c. What should you be if you can't be a tree?
   i. Branch iii. Flower
   ii. Hill iv. Bush

Write true or false: 4x½=2

d. The poet says if you can't be a pine on the hill, you can be a highway.
e. We should be a star if we can't be the sun.
f. The poet says everyone can be captains without crew.
g. Size cannot decide our victory but being the best we can be.

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Unit– II (Writing and Applied Grammar)

3. a.Complete the story in about 150-200 words following the starter line given below.
One evening while Kuvieo was at the library…… **6**

Or

b.Teenagers waste most of their time on Facebook and other social networking sites. Parents today are worried a lot due to this as their children's studies and other activities get neglected. Write an article in about 150-200 words on the topic, "*Advantages and Disadvantages of Social Networking Sites*"

4. a. Write a dialogue in about 100-150 words between two friends discussing who is more useful to society- a doctor or a teacher/ a policeman or a lawyer (choose any one)**.**

Or **6**

b.Write a report in about 150-200 words on the Cultural Day programme which was organized by your school.

5. **Fill in the blanks with the correct Degree of Comparison:** **2x1=2**
   a. The route was _____ (long) than we had expected.
   b. Shuni is the _____ (young) among her siblings.

6. **Choose the best preposition to complete the passage:** **2x1=2**
Kevi bought many books and kept them in the library. Many visitors come to borrow the books _____ (with/from/for) his library. He keeps his favorite books _____ (at/behind/from) the wooden shelf.

7. **Rewrite the sentences as directed:** **2x1=2**
   a. Ruli is honest. Ruli is hardworking. (Use an appropriate Conjunction to join the sentences)
   b. She looks as if she is sick. (Underline the Adverb Clause)

8. **Change the voice:** **2x1=2**
   a. Vinito is flying a kite.
   b. The chief guest was welcomed by the villagers.

Unit – III (Literature)

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

i.Why did Pasteur release the crazed dog's saliva into a sterile test-tube?
   a. He did not want to mix the rabies microbes with other germs.
   b. He did not want the rabies microbes to escape.
   c. He did not want the poisonous saliva to touch his skin.
   d. He did not want the rabies microbes to reproduce.

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ii. What sign is the laughter of the old people?
a. Triumph over death b. Triumph over life
c. Triumph over pain d. Triumph over sadness

iii. What according to Anne Frank does she lack?
a. Admirers b. A loving family
c. One true friend d. A pet dog

iv. "*Old and young, we dream of graves and monuments*." Who said this? (*The Ambitious Guest*)
a. The grandmother b. The daughter
c. The young man d. The landlord

v. '*Without thee what is all the morning's wealth*?' Who is '*thee*' here. (*To Sleep*)
a. Mother b. Sleep
c. Nature d. Cuckoo

vi. What does the poet want to see in her broken land?
a. High handedness b. Sovereignty
c. The beauty of Christ d. AK forty sevens

vii. What do Toshi and the village kids do long after the vehicle had gone?
a. Sit around some place and recount the whole incident.
b. Sniff the vehicle exhaust together.
c. Throw pebbles at the apes.
d. Go home and sleep.

viii. Why are the fishes in Vancouver full of cancer? (Speech by Severn Suzuki)
a. Global warming.
b. Excessive usage of water.
c. Dumping of industrial waste into lakes.
d. Polluted air from industries.

ix. On Anne's 14th birthday, who composed a lovely poem?
a. Margot b. Miep
c. Peter d. Otto Frank

x. Who provided motor power by galloping along behind the trolley?
a. The driver b. The mechanic
c. The ward boy d. Dr. Barnard

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Answer the following questions in about 20-25 words: 5x2=10

10. What does the father wish to let people know him as after his death? (*The Ambitious Guest*)
11. Why does the poet address sleep as mother in the poem, '*To Sleep*'?
12. Why does the poet think that he has come to the end of his voyage? (Closed Path)
13. Why does Anne feel such a strong need to start writing a diary? (*The Diary of a Young Girl*)
14. Why does Anne Frank say that nature is the best medicine for all her trouble? (*The Diary of a Young Girl*)

Answer thefollowing questions in about 40-45 words: 5x4=20

15.a. '*In Canada we lived a privileged life…*' (*Speech by Severn Suzuki*)

i. What sort of privileged life do the children in Canada enjoy? (2)

ii. How do the children living in Brazil and Somalia suffer as narrated by Severn Suzuki? (2)

Or

b. '*I thought that my voyage had come to its end*
At the last limit of my power, that the path before me was closed,' (*Closed Path*)

i. What voyage is the poet talking about? (1)

ii. Why was he thinking so? (2)

iii. What do you think he started doing next? (1)

16. a. '*There's been a break-in! Peter went down to the warehouse this morning and noticed at once that the warehouse door was open.*' (*Diary of a Young Girl*)

i. What did the burglars steal from the warehouse? (2)

ii. What new orders were imposed for the residents of the Annex after the break in? (2)

Or

b. What are the similarities between Anne and Peter? Do you think these reasons contribute to them becoming closer? (3+1=4)

17.'*During such exploits, finding a patch of oil or fuel which had fallen through a leak in the vehicle was like hitting the jackpot!*' (*Fragrance of the Gods*)

i. Why was finding a patch of oil on the ground like winning the jackpot? (1)

ii. Why and how did the finder try to hide the oil? (3)

18.What are the signs and symptoms of rabies? Which region of the brain does the rabies germ favour? (*Man Against Virus*) (3+1=4)

19. '*Lord of Heaven and earth, look down in mercy*
And remember that we have tried, though imperfectly,
All our days
To live by thy given code:' (*Prayer of the Meek*)

i. Who is the poet talking to? (1)

ii. What is the '*given code*'? (3)

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Read the lines and answer the questions that follow:

20.a. '*If you can't, they accept their fate.*' (*In Celebration of Being Alive*)

i. Who do '*you*' refer to? **1**

ii. What is the fate that children accept? **2**

iii. Why do you think they accept their fate more willingly than others? **2**

Or

b. '*Saliva glistens in*
the corners of their mouths,
their heads wobble
on brittle necks, but
the laps
are filled with memories'

i. Who is being addressed in this poem? (1)

ii. What is the attitude of old people when they laugh? (2)

iii. What does the poet mean by '*their laps are filled with memories*'? (2)

21. '*Mr. Dussel has arrived. Everything went smoothly.*' (*Diary of a Young Girl*)

i. Who is Mr. Dussel? **2**

ii. What do the residents of the Annex get to know from Mr. Dussel about the outside world? **3**

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Total number of printed pages : 6 *NB-T/M-A/1*

2024

MATHEMATICS - A

Total marks : 80 Time : 3 hours

General Instructions:

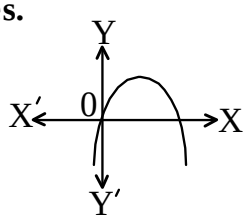
i) Approximately 15 minutes is allotted to read the question paper and revise the answers.
ii) The question paper consists of 23 questions.
iii) All questions are compulsory.
iv) Internal choice has been provided in some questions.
v) Marks allocated to each question are indicated against it.
vi) Write the correct question number in your answer sheet to indicate the option being attempted.

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

Section – A

1. **Choose the correct answer from the given alternatives.**

(a) The number of zeroes of the polynomial $p(x)$ in the adjoining graph is **1**



(i) 0 (ii) 1
(iii) 2 (iv) 3

(b) The pair of equations $2x + y = 5$ and $x + 2y = 4$ are **1**
(i) consistent and have a unique solution.
(ii) consistent and have dependent solutions.
(iii) inconsistent and parallel.
(iv) consistent and parallel.

(c) The quadratic equation $2x^2 - \sqrt{5}\,x + 1 = 0$ has **1**
(i) two distinct real roots. (ii) two equal real roots.
(iii) more than two real roots. (iv) no real roots.

(d) How many terms are there in the AP 3, 6, 9, 12, ..., 111? **1**
(i) 38 (ii) 37 (iii) 36 (iv) 35

(e) If θ is an acute angle and $1 + 2\sin\theta = 2$, then the value of θ is **1**
(i) 30° (ii) 45° (iii) 60° (iv) 90°

(f) If θ varies from 90° to 0°, then how does cos θ varies? **1**
(i) Decreases from 0 to 1 (ii) Decreases from Not Defined to 0
(iii) Increases from 1 to 0 (iv) Increases from 0 to Not Defined

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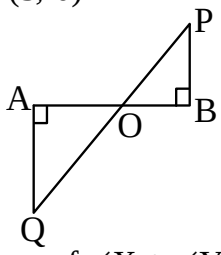
(g) Q is a point on x-axis at a distance of 5 units from y-axis to its right. The coordinates of the point Q are **1**

(i) (0, 5) (ii) (5, –5) (iii) (–5, 5) (iv) (5, 0)

(h) QA and PB are perpendiculars on AB. If AO = 10 cm, BO = 6 cm and PB = 9 cm, then the measure of AQ is **1**



(i) 6.67cm (ii) 10 cm

(iii) 15 cm (iv) 25 cm

(i) If $\Delta PQR \sim \Delta XYZ$, $\angle Q = 70°$, $\angle R = 60°$, what is the measure of $\angle X + \angle Y$? **1**

(i) 130° (ii) 120° (iii) 110° (iv) 50°

(j) The number of tangents to a circle which are parallel to a given chord is **1**

(i) infinite (ii) 3 (iii) 2 (iv) 1

(k) If the perimeter and the area of a circle are numerically equal, then the radius of the circle is **1**

(i) 2 units (ii) π units (iii) 4 units (iv) 2π units

(l) The ratio of the total surface area to the lateral surface area of a cylinder with base radius 80 cm and height 20 cm is **1**

(i) 2 : 1 (ii) 3 : 1 (iii) 4 : 1 (iv) 5 : 1

(m) The construction of Cumulative Frequency table is useful to determine **1**

(i) Mode (ii) Mean (iii) Median (iv) All the above

(n) Two coins are tossed simultaneously. The probability of getting atmost one head is **1**

(i) $\frac{3}{4}$ (ii) $\frac{1}{3}$ (iii) $\frac{1}{2}$ (iv) $\frac{1}{4}$

(o) A die is thrown once. The probability of getting a composite number is **1**

(i) $\frac{1}{6}$ (ii) $\frac{1}{3}$ (iii) $\frac{1}{2}$ (iv) 1

Section – B

2. Prove that $\frac{3+\sqrt{5}}{2}$ is an irrational number, given that $\sqrt{5}$ is an irrational number. **2**

3. Find the roots of the quadratic equation $2x^2 - x + \frac{1}{8} = 0$ by factorisation. **2**

4. Given 15 cot A = 8, find sin A and sec A, with the help of a right triangle. **2**

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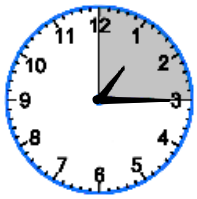
5. In a rectangle, the angle between a diagonal and a side is 30°, and the length of its diagonal is 8 cm. Find the dimensions of the rectangle. **2**

6. Find the point on the x-axis which is equidistant from (2, –5) and (–2, 9) **2**

7. A vertical pole of length 6 m casts a shadow 4 m long on the ground and at the same time, a tower casts a shadow 28 m long. Find the height of the tower. **2**

8. The length of the minute hand of a clock is 14 cm. Find the area swept by the minute hand in 15 minutes. **2**



Section – C

9. **(a)** Find the zeroes of the quadratic polynomial $6x^2 - 3 - 7x$ and verify the relationship between the zeroes and the coefficients.

Or **3**

(b) Find the nature of the roots of the quadratic equation, $x^2 - 6x + 5 = 0$. If the real roots exist, find them.

10. Solve the following pair of linear equations by substitution method: **3**

$$\frac{3x}{2} - \frac{5y}{3} = -2\ ,\ \frac{x}{3} + \frac{y}{2} = \frac{13}{6}$$

11. If the 3rd and the 9th terms of an AP are 4 and –8 respectively, which term of this AP is zero? **3**

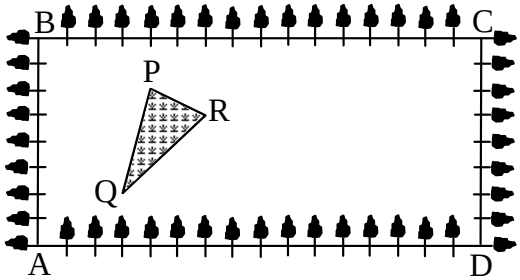
12. **a.** Evaluate $\dfrac{5\cos^2 60° + 4\sec^2 30° - \tan^2 45°}{\sin^2 30° + \cos^2 30°}$

Or **3**

b. Prove that : $\dfrac{1+\sec A}{\sec A} = \dfrac{\sin^2 A}{1-\cos A}$, where $\angle A$ is acute.

13. A 1.5 m tall boy is standing at some distance from a 30 m tall building. The angle of elevation from his eyes to the top of the building increases from 30° to 60° as he walks towards the building. Find the distance he walked towards the building. **3**

14. The Class X students of a school, have been allotted a rectangular plot of land for their gardening activity. Sapling of Pine trees are planted on the boundary at a distance of 1 m from each other. There is a triangular grassy lawn in the plot, as shown in the figure.



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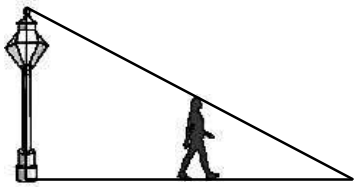
(i) Taking A as origin and AD as x-axis, find the coordinates of the vertices of the triangular plot.

(ii) Find the coordinates of the midpoint of side PR. **3**

15. **a.** A girl of height 90 cm is walking away from the base of a lamp-post at a speed of 1.2 m/s. If the lamp is 3.6 m above the ground, find the length of her shadow after 4 seconds.



Or **3**

b. ABCD is a trapezium in which AB || DC and its diagonals intersect each other at the point O. Show that $\frac{AO}{BO} = \frac{CO}{DO}$

16. **a.** Prove that the lengths of tangents drawn from an external point to a circle are equal.

Or **3**

b. Prove that the angle between the two tangents drawn from an external point to a circle is supplementary to the angle subtended by the line-segment joining the points of contact at the centre.

17. **a.** A chord of a circle of radius 15 cm subtends an angle of 60° at the centre. Find the areas of the corresponding minor and major segments of the circle. [Take $\pi = 3.14$ and $\sqrt{3} = 1.73$]

Or **3**

b. Rachel, an engineering student, was asked to make a model shaped like a cylinder with two cones attached at its two ends by using a thin aluminium sheet. The diameter of the model is 3 cm and its length is 12 cm. If each cone has a height of 2 cm, find the volume of air contained in the model that Rachel made. [Take $\pi = \frac{22}{7}$]

18. Find out the mean concentration of SO_2 in the air (in parts per million, i.e., ppm) for 30 localities using Step-deviation method, the data of which is below: **3**

Concentration of SO_2 (in ppm)	0.00-0.04	0.04-0.08	0.08-0.12	0.12-0.16	0.16-0.20	0.20-0.24
Frequency	4	9	9	2	4	2

19. **a.** The given distribution shows the number of runs scored by some top batsmen of the world in one-day international cricket matches. Find the mode of the data.

Runs scored	3000 - 4000	4000 - 5000	5000 - 6000	6000 - 7000	7000 - 8000	8000 - 9000	9000 - 10000	10000- 11000
Number of batsmen	4	18	9	7	6	3	1	1

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Or **3**

b. The lengths of 40 leaves of a plant are measured correct to the nearest millimeter, and the data obtained is represented in the following table:

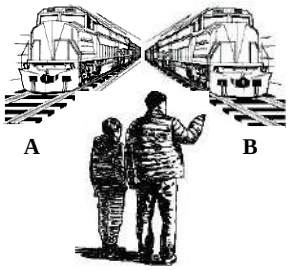
Length (in mm)	118-126	127-135	136-144	145-153	154-162	163-171	172-180
Number of leaves	3	5	9	12	5	4	2

Find the median length of the leaves.

20. A box contains 90 discs which are numbered from 1 to 90. If one disc is drawn at random from the box, find the probability that it bears: (i) a two-digit number, (ii) a perfect square number, (iii) a number divisible by 5. **3**

Section – D

21. **Answer any one from the following questions (a) to (c):** **5**



a. Avibu went travelling by train with his father who is an expert in Mathematics. He told Avibu that path of train A is given by the equation $2x + 4y = 8$ and path of train B is given by the equation $3x + 6y = 18$. Help Avibu solve the following questions:

(i) Represent the two equations graphically.

(ii) Write the coordinates of the point where the line $2x + 4y = 8$ intersects the x-axis.

(iii) Write the coordinates of the point where the line $3x + 6y = 18$ intersects the y-axis.

Or

b. John was asked to represent the following statement in the form of a quadratic equation:

The sum of two numbers is 9. The sum of their reciprocals is $\frac{1}{2}$.

(i) If John wrote the equation correctly, what would he have written?

(ii) Find the values of the two numbers.

(iii) Also, verify that the sum of the reciprocals of the two numbers is $\frac{1}{2}$.

Or

c. Avika's mother opened a new shoe shop. To display the shoes, she put 3 pairs of shoes in 1st row, 5 pairs in 2nd row, 7 pairs in 3rd row and so on. On the basis of the above information, answer the following questions:

(i) If she puts a total of 120 pairs of shoes, what is the required number of rows?

(ii) What is the difference of pairs of shoes in the 17th row and 10th row?

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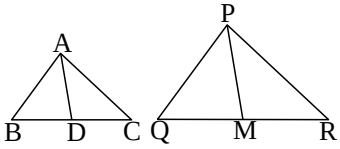
22. **Answer any one from the following questions (a) to (c):** **5**

a. State and prove Thales Theorem.

Or

b. Sides AB and BC and median AD of a triangle ABC are respectively proportional to sides PQ and QR, and median PM of ΔPQR. Show that ΔABC ~ ΔPQR



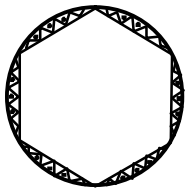
Or

c. Prove that opposite sides of a quadrilateral circumscribing a circle subtend supplementary angles at the centre of the circle.

23. **Answer any one from the following questions (a) to (c):** **5**

a. A round table cover has six equal designs as shown in figure. If the radius of the cover is 28 cm, find the costs of making the designs at the rate of `0.35 per cm^2.

[Take $\pi = \frac{22}{7}$ and $\sqrt{3} = 1.73$]



Or

b. A tent is in the shape of a cylinder surmounted by a conical top. If the height and diameter of the cylindrical part are 2.1 m and 4 m respectively, and the slant height of the top is 2.8 m, find the area of the canvas used for making the tent. Also, find the cost of the canvas of the tent at the rate of `500 per m^2. [Take $\pi = \frac{22}{7}$]

Or

c. A solid consisting of a right circular cone of height 120 cm and radius 60 cm standing on a hemisphere of radius 60 cm is placed upright in a right circular cylinder full of water such that it touches the bottom. Find the volume of water left in the cylinder, if the radius of the cylinder is 60 cm and its height is 180 cm. [Take $\pi = \frac{22}{7}$]

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Total number of printed pages : 7 *NB-T/M-B/1*

2024

MATHEMATICS - B

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.

iii) All questions are compulsory.

iv) Internal choice has been provided in some questions.

v) Marks allocated to each question are indicated against it.

vi) Write the correct question number in your answer sheet to indicate the option being attempted.

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

Section – A

1. **Choose the correct answer from the given alternatives.**

(a) A polynomial of degree 2 is called a **1**

(i) quadratic polynomial. (ii) cubic polynomial.

(iii) linear polynomial. (iv) bi-quadratic polynomial.

(b) If a pair of linear equations has no solution, then the lines are **1**

(i) always intersecting. (ii) always coincident.

(iii) parallel. (iv) intersecting or coincident.

(c) A quadratic equation $ax^2 + bx + c = 0$, $a \neq 0$ has two equal roots, then **1**

(i) $c^2 - 4ab = 0$ (ii) $b^2 - 4ab = 0$

(iii) $b^2 + 4ac = 0$ (iv) $b^2 - 4ac = 0$

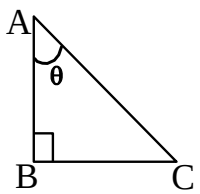
(d) The common difference of the AP $\frac{1}{3}, \frac{5}{3}, \frac{9}{3}, \frac{13}{3}, \ldots$ is **1**

(i) $\frac{-4}{3}$ (ii) $\frac{4}{3}$ (iii) -2 (iv) 2

(e) If $\sin\theta = \frac{\sqrt{3}}{2}$, then the value of θ is **1**

(i) 90° (ii) 60° (iii) 45° (iv) 30°

(f) In the adjoining figure, the value of $\cos\theta$ is **1**



(i) $\frac{AB}{AC}$ (ii) $\frac{BC}{AC}$

(iii) $\frac{AB}{BC}$ (iv) $\frac{AC}{AB}$

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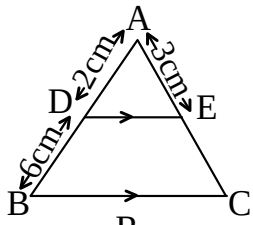
(g) The mid-point of the line joining the points A(x_1, y_1) and B(x_2, y_2) is **1**

(i) $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ (ii) $\sqrt{(x_2 + x_1)^2 + (y_2 + y_1)^2}$

(iii) $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$ (iv) $\left(\frac{x_1 - x_2}{2}, \frac{y_1 - y_2}{2}\right)$

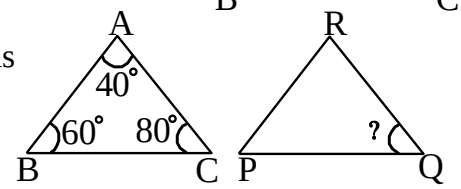
(h) In the adjoining figure, if DE || BC, then EC is equal to **1**



(i) 4 (ii) 6

(iii) 9 (iv) 12

(i) If $\Delta ABC \sim \Delta PQR$, then the value of $\angle Q$ is **1**



(i) 80° (ii) 60°

(iii) 40° (iv) 20°

(j) The number of tangents that can be drawn from an external point to a circle is **1**

(i) infinite (ii) 0 (iii) 1 (iv) 2

(k) In a circle, if the lengths of the major arc and the minor arc are 30 cm and 14 cm respectively, then the circumference of the circle is **1**

(i) 44 cm (ii) 30 cm (iii) 16 cm (iv) 14 cm

(l) The radius of the sphere whose surface area is 154 cm^2 is **1**

(i) 3.5 cm (ii) 7 cm (iii) 14 cm (iv) 49 cm

(m) In the formula, Median = $l + \frac{\frac{N}{2} - c.f.}{f} \times h$, h is **1**

(i) highest frequency (ii) height (iii) class mark (iv) class size

(n) What is the probability of a sure event? **1**

(i) 0 (ii) $\frac{1}{2}$ (iii) 1 (iv) Less than 1

(o) A die is thrown once. The probability of getting a number less than 3 is **1**

(i) $\frac{1}{6}$ (ii) $\frac{1}{3}$ (iii) $\frac{2}{3}$ (iv) 1

Section – B

2. Given that HCF (26, 91) = 13. Find the LCM (26, 91) **2**

3. Find the roots of the quadratic equation $x^2 - 3x - 10 = 0$ by factorisation. **2**

4. State whether sin (A + B) = sin A + sin B is True or False. Justify your answer. **2**

5. A tower is $100\sqrt{3}$ m high. Find the angle of elevation of its top from a point 100 m away from its foot. **2**

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6. Find the distance between the points (1, –2) and (–3, 4) **2**

7. E and F are points on the sides PQ and PR respectively of a ΔPQR. PE = 4 cm, QE = 4.5 cm, PF = 8 cm and RF = 9 cm. Check whether EF || QR or not. **2**

8. Find the area of a sector of a circle with radius 21 cm if the angle of the sector is 60° [Take $\pi = \frac{22}{7}$] **2**

Section – C

9. **(a)** If $\frac{-1}{3}$ and $\frac{3}{2}$ are the zeroes of a quadratic polynomial, find the polynomial and hence verify the relationship between the zeroes and the coefficients.

Or **3**

(b) Find the value of k for which the quadratic equation, $kx(x-2)+6=0$ has equal roots.

10. Solve the following pair of linear equations by substitution method: **3**

$2x + 3y = 11, \quad 2x - 4y = -24$

11. Find the 31st term of an AP whose 11th term is 38 and 16th term is 73. **3**

12. **a.** If $\cot\theta = \frac{7}{8}$, find $\cot^2\theta$ with the help of a right triangle.

Or **3**

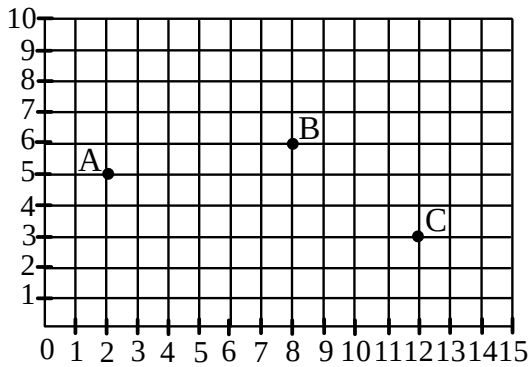
b. Prove that : $\sqrt{\frac{1+\sin A}{1-\sin A}} = \sec A + \tan A$, where ∠A is acute.

13. From a point on the ground, the angles of elevation of the bottom and the top of a transmission tower fixed at the top of a 20 m high building are 45° and 60° respectively. Find the height of the tower. [Use $\sqrt{3} = 1.732$] **3**

14. Three friends from Dimapur, namely Reema, Jyoti and Deepa living in different locations are represented by the points A, B and C respectively. They all go to the same school which is located at the origin O. Reema comes to school by foot, Jyoti comes by bus and Deepa comes by car. Using this information, answer the following:

(i) Write the coordinates of the points A, B & C.

(ii) How far is the school from Jyoti's location?



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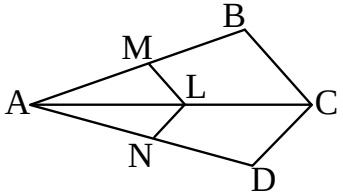
15. **a.** In the adjoining figure, if LM || CB and LN || CD, prove that $\frac{AM}{AB} = \frac{AN}{AD}$



Or **3**

b. E is a point on the side AD produced of a parallelogram ABCD and BE intersects CD at F. Show that $\Delta ABE \sim \Delta CFB$.

16. **a.** Prove that the lengths of tangents drawn from an external point to a circle are equal.

Or **3**

b. The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4 cm. Find the radius of the circle.

17. **a.** A chord of a circle of radius 10 cm subtends a right angle at the centre. Find the areas of the corresponding minor and major segments of the circle. [Take $\pi = 3.14$]

Or **3**

b. A vessel is in the form of a hollow hemisphere mounted by a hollow cylinder. The diameter of the hemisphere is 14 cm and total height of the vessel is 13 cm. Find the inner surface area of the vessel. [Take $\pi = \frac{22}{7}$]

18. The table below shows the daily expenditure on food of 25 households in a locality. Find the mean daily expenditure on food by a suitable method. **3**

Daily expenditure (in `)	100-150	150-200	200-250	250-300	300-350
Number of households	4	5	12	2	2

19. **a.** A student noted the number of cars passing through a spot on a road for 100 periods each of 3 minutes and summarised it in the table given below. Find the mode of the data.

Number of cars	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	10	14	13	12	20	8	15	8

Or **3**

b. The following frequency distribution gives the monthly consumption of electricity of 68 consumers of a locality. Find the median monthly consumption of the data.

Monthly consumption (in units)	68-85	85-105	105-125	125-145	145-165	165-185	185-205
Number of consumers	4	5	13	20	14	8	4

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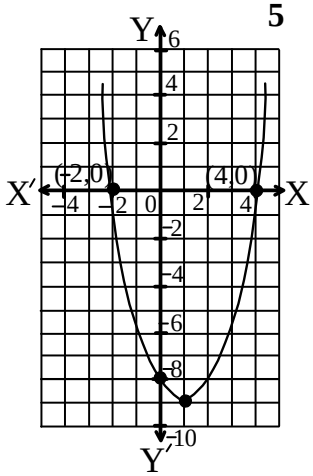
20. A box contains 5 red marbles, 8 white marbles and 4 green marbles. One marble is taken out of the box at random. What is the probability that the marble taken out will be: (i) red, (ii) white, (iii) not green? **3**

Section – D

21. **Answer any one from the following questions (a) to (c):** **5**

a. Nina saw a creeper on the boundary of her aunt's house which was in the shape as shown in the figure. Answer the following questions by considering that the creeper has the same mathematical shape as shown in the figure:



(i) How many zeroes does the polynomial (shape of the creeper) have?
(ii) Find the sum of the zeroes.
(iii) Find the product of the zeroes.
(iv) Write the expression of the polynomial represented by the graph.

Or

b. Rana usually go to a dry fruit shop with his mother. He observes the following two situations:

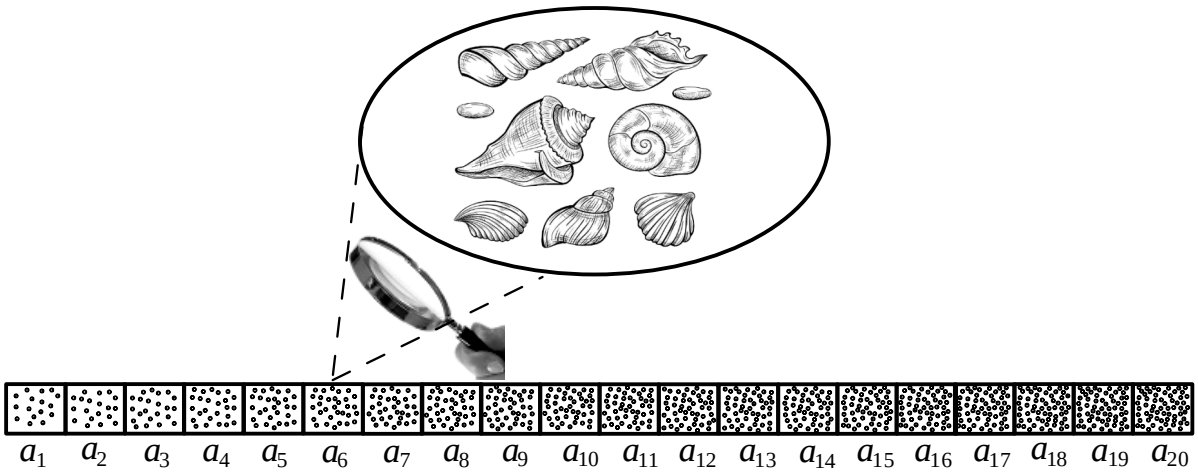
On 1st day: The cost of 2 kg of almonds and 1 kg of cashew was `1600.
On 2nd day: The cost of 4 kg of almonds and 2 kg of cashew was `3000.

Denoting the cost of 1 kg almonds by ` $x$ and cost of 1 kg cashew by ` y, answer the following questions:

(i) Represent algebraically the situations of the 1st day and the 2nd day.
(ii) What is the coordinate of the point, which the equation represented by the 1st day intersect the x-axis?
(iii) What is the coordinate of the point, which the equation represented by the 2nd day intersect the y-axis?

Or

c. In a board game, the number of sea shells in various cells forms an AP. If the number of sea shells in the 3rd and 11th cell together is 68 and the number of shells in the 11th cell is 24 more than that of the 3rd cell, then answer the following questions based on this data:



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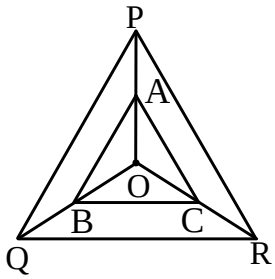
(i) What is the difference between the number of sea shells in the 19th and 20th cells?
(ii) How many sea shells are there in the first cell?
(iii) How many total sea shells are there in the first 13 cells?

22. **Answer any one from the following questions (a) to (c):** **5**



a. State and prove Thales Theorem.

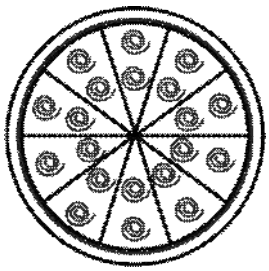
Or

b. In the adjoining figure, A, B and C are points on OP, OQ and OR respectively such that AB || PQ and AC || PR. Show that BC || QR.

Or

c. Prove that opposite sides of a quadrilateral circumscribing a circle subtend supplementary angles at the centre of the circle.

23. **Answer any one from the following questions (a) to (c):** **5**

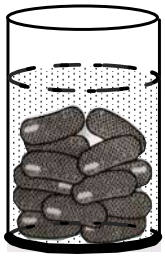


a. A brooch is made with silver wire in the form of a circle with diameter 35 mm. The wire is also used in making 5 diameters which divide the circle into 10 equal sectors as shown in the figure. Find the:
(i) total length of the silver wire required.
(ii) area of each sector of the brooch. [Take $\pi = \frac{22}{7}$]

Or

b. A tent is in the shape of a cylinder surmounted by a conical top. If the height and diameter of the cylindrical part are 2.1 m and 4 m respectively, and the slant height of the top is 2.8 m, find the area of the canvas used for making the tent. Also, find the cost of the canvas of the tent at the rate of `500 per m^2. [Take $\pi = \frac{22}{7}$]

Or



c. A *gulab jamun*, contains sugar syrup up to about 30% of its volume. Find approximately how much syrup would be found in 45 *gulab jamuns*, each shaped like a cylinder with two hemispherical ends with length 5 cm and diameter 2.8 cm. [Take $\pi = \frac{22}{7}$]

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