

24thMVI
(SCIENCE)

Time Allowed 1 hour

Maximum Marks : 100

**Read the following instructions carefully before
you begin to answer the questions.**

1. This booklet contains 50 questions in all.
2. All questions are compulsory and each question carries 2 marks.
3. Before you start to answer the questions you must check up this booklet and ensure that it contains all the pages 5 (Five) and see that no page is missing or repeated. If you find any defect in this Booklet, you must replace it immediately.
4. There will **NOT** be any negative marking for wrong answers.
5. You are required to fill the information on the answer sheet which you will get in the examination hall by **H.B. pencil or BALL point pen**.
6. **Answer Sheet** and **Question Paper** will be supplied in examination hall. After the test is over, you should hand over the answer sheet to the invigilator before leaving the room.
7. You should write your **Name, Roll No.**, carefully on the space provided in the answer sheet. Otherwise you will be awarded **ZERO** mark.
8. If you wish to change your answer, **ERASE** completely the darkened circle by using an **ERASER** and then blacken the new circle. If not erased completely, smudges will be left on the erased circle and the question will be read as having two answer and will be ignored for giving any credit.
9. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
10. You are not allowed to leave the examination hall until you are advised to do so by the invigilator.

- (1) -

1. Which vitamin is destroyed by heat during cooking ?
(A) Vitamin A (B) Vitamin B
(C) Vitamin C (D) Vitamin D
2. Which of the following is a solution ?
(A) a mixture of common salt and sugar.
(B) a mixture of sand and water.
(C) a mixture of sugar and water
(D) a mixture of soil and water.
3. Match column A and column B.
Column A Column B
i) incisors i) coarse grinding of food.
ii) canines ii) cut food.
iii) premolars iii) fine grinding of food
iv) molars iv) tear flesh
(A) i ii iii iv (B) i ii iii iv
 b d a c a b c d
(C) i ii iii iv (D) i ii iii iv
 b a d c d b a c
4. Which of the following can transmit light?
(A) transparent materials
(B) translucent materials
(C) opaque materials
(D) both (A) and (B)
5. Stunted growth, swelling of face, discolouration of hair, skin diseases and diarrhoea are the symptoms of deficiency of certain nutrient in the diet. What is the nutrient ?
(A) carbohydrate (B) protein
(C) fat (D) vitamin
6. How many midribs are there in a mango leaf?
(A) one (B) two
(C) three (D) four
7. Duranta is an example of :
(A) herb (B) shrub
(C) tree (D) both (A) and (B)
8. Which of the following does not occupy space?
(A) Solid (B) Liquid
(C) Hydrogen (D) None of the above
9. Carnassials are the teeth of :
(A) cow (B) lion
(C) shark (D) giraffe
10. The colour of a food sample changes to blue black when some drops of iodine is added to the food. This indicates the presence of nutrient A in the food sample. A is :
(A) carbohydrates (B) proteins
(C) fats (D) vitamins
11. The largest manufacturer of jute products in the world is :
(A) India (B) Pakistan
(C) Bangladesh (D) Brazil
12. Choose the correct sequence
(A) fibre → fabric → yarn
(B) yarn → fibre → fabric
(C) fibre → yarn → fabric
(D) fabric → fibre → yarn
13. Which of the following is not a terrestrial habitat ?
(A) coastal region (B) deserts
(C) grassland (D) swamps

- (6) -

46. A boy covers a complete rectangular track of length 100m and breadth 50m in 50 seconds. The speed of the boy is
(A) 20.6 km/hr (B) 21.5 km/hr
(C) 21.6 km/hr (D) 21.8 km/hr
 47. Respiration is energy producing metabolic activity by breaking food matters into X and Y in the presence of Z from the atmosphere. Identify X, Y and Z.
(A) X is oxygen, Y is water and Z is carbondioxide.
(B) X is carbondioxide, Y is water and Z is oxygen
(C) X is oxygen, Y is carbondioxide and Z is water
(D) X is carbondioxide, Y is oxygen and Z is water.
 48. Which of the following statement is wrong in the case of seeds ?
(A) They do not prepare food
(B) They do not excrete
(C) They do not show any sign of growth for many months.
(D) They do not respire
 49. Which of the following statements about cockroach are wrong?
i) They have a pair of feelers.
ii) They are able to squeeze through crevices
iii) Their feet are not equipped with claws
iv) They use their wings only to fly long distances
v) A cockroach walks in a very interesting manner moving three legs at a time.
(A) ii and iii
(B) iii and iv
(C) iii, iv and v
(D) i, ii and iii
 50. Calcereous exoskeleton is found in
(A) earthworm
(B) snail
(C) cockroach
(D) both (B) and (C)
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41. Match column A and column B

Column A	Column B
a) circular motion	l) motion of a top
b) Rectilinear	m) motion of the tip of the blade of a fan
c) Rotational motion	n) Motion of a pendulum
d) Periodic motion	o) Apple falling from a table
(A) a b c d l o m n	(B) a b c d l n m o
(C) a b c d m o n l	(D) a b c d m o l n

42. The changes that take place in an organism over a short period of time in order to overcome small changes in the surroundings are called

- (A) acclimatization
- (B) adaptation
- (C) habitation
- (D) metabolism

43. Which of the following activity should not be done to deal with garbage in an environment friendly way ?

- (A) Plastic bags should never be used to store eatables or to carry hot, cooked food.
- (B) Shopkeepers should be insisted to use paper bags.
- (C) Plastic bags should be thrown along with the garbage.
- (D) Paper should be recycled as much as possible.

44. The simplest and most common method of garbage disposal is :

- (A) Incineration
- (B) Landfill
- (C) Recycling
- (D) vermicomposting

45. Fish use dissolved oxygen in water with the help of their

- (A) gills
- (B) tail
- (C) fins
- (D) all the above

14. Vallisneria is :

- (A) common pond weed
- (B) Bladder wort
- (C) common hornwort
- (D) Eel grass

15. The total amount of water on earth is :

- (A) increases day by day due to global warming
- (B) decreases day by day
- (C) the same
- (D) increases or decreases according to the amount of rainfall

16. Phylloclade is :

- (A) modified root
- (B) modified stem
- (C) modified leaf
- (D) flower

17. Match table A (mixtures) with table B(process of separation of constituents)

Table A	Table B
a) pebbles and stones with sand	i) winnowing
b) oil and water	ii) sieving
c) chaff and paddy grain	iii) decantation
d) salt in sea water	iv) evaporation
(A) a b c d i ii iii iv	(B) a b c d ii iii i iv
(C) a b c d iii iv i ii	(D) a b c d iv i ii iii

18. Which of the following parts of a plant is called pedicel ?

- (A) Stalk
- (B) Veins
- (C) Leaves
- (D) Calyx

19. Identify the fibre from the following properties :

- (i) It does not catch fire easily but melts away.
- (ii) It shrinks away from flame.
- (iii) It has no definite smell
- (iv) Its ash is hard uncrushable bead
- (A) cotton
- (B) jute
- (C) wool
- (D) polyester

20. Which one of the following statements is true regarding a mixture?

- (A) Mixtures are always homogeneous
- (B) In a mixture constituent substances are mixed chemically.
- (C) The constituents in a mixture retain their individual properties.
- (D) Mixtures have fixed melting and boiling points.

21. Identify the part from which cotton fibre is made ?

- (A) flower
- (B) bud
- (C) fruit
- (D) stem

22. Which of the following is a physical change?

- (A) Rusting of iron
- (B) Drying of clothes
- (C) Growing in plants
- (D) Curdling of milk

23. A bar magnet is cut into four equal parts. It is joined again using quick fix. The new magnet will behave as :
 (A) four bar magnets
 (B) four ordinary rods
 (C) one ordinary bar magnet
 (D) one ordinary iron rod
24. Choose the correct sequence from the following.
 a) tissues b) organs c) cells
 d) organ system e) animal body
 (A) c → a → b → d → e
 (B) a → b → c → d → e
 (C) b → a → c → d → e
 (D) a → c → b → e → d
25. Which of the following is not a characteristic feature of invertibrate?
 (A) presence of excretory system
 (B) presence of backbone system
 (C) presence of reproductive system
 (D) presence of digestive system
26. Which substance is removed through stomata during daytime by plants?
 (A) oxygen (B) carbon dioxide
 (C) sugar (D) salt
27. Which of the following is not soluble in water?
 (A) Salt
 (B) copper sulphate
 (C) Potassium permanganate
 (D) None of the above.
28. Identify pure substance from the following.
 (A) Sea water (B) River water
 (C) Tap water (D) None of the above
29. Socket joint is an example of :
 (A) Freely movable joint
 (B) Fixed joint
 (C) Slightly movable joint
 (D) Both (B) and (C)
30. The average composition of organic waste in domestic waste is
 (A) 50% (B) 60%
 (C) 70% (D) 80%
31. Hecto means a multiple of :
 (A) 10 (B) 100
 (C) 1000 (D) 10000
32. Identify the incorrect statement about writing the symbols of units :
 (A) Symbols for units of quantities shall be written with a capital letter.
 (B) Symbols for units named after a scientist shall be written with a capital letter.
 (C) Symbols for units shall not be followed by a full stop unless it occurs at the end of the sentence.
 (D) While writing the symbols of the units in plural form it should never be written adding the letter 's' to the symbol.

33. What is the purpose of using a switch in an electric circuit ?
 (A) To increase the brightness of the bulb
 (B) To save electrical energy in the circuit
 (C) To complete the circuit
 (D) To prevent the melting of insulated wire
34. Which of the following can dissolve in water ?
 i) sugar ii) salt
 iii) oxygen iv) carbondioxide
 (A) i and ii (B) iii and iv
 (C) i, ii and iii (D) i, ii, iii and iv
35. Match column A and column B
- | Column A | Column B |
|---------------|-------------|
| a) calyx | i) stamen |
| b) corolla | ii) sepals |
| c) androecium | iii) carpel |
| d) gynoecium | iv) petals |
| (A) a b c d | (B) a b c d |
| ii iv i iii | iii iv i ii |
| (C) a b c d | (D) a b c d |
| ii iii iv i | ii iii i iv |
36. The length of a table is 5643mm. What would be its length when expressed in SI unit ?
 (A) 5m (B) 56m
 (C) 5.3m (D) 5.634m
37. Electric heater coil should be of :
 (A) low resistance
 (B) high resistance
 (C) low melting point
 (D) high conductivity
38. Which one of the following metals is used in making artificial magnets ?
 (A) Iron (B) Silver
 (C) Cobalt (D) Copper
39. The burning of a candle stops after sometime when it is kept inside a closed container. The reason for this is :
 (A) carbondioxide present in the container is exhausted
 (B) nitrogen present in the container is exhausted
 (C) oxygen present in the container is exhausted
 (D) All the above
40. Which of the following set of electrical components can be used to set up a simple electric circuit ?
 (A) wires, switch, bulb
 (B) bulb, battery, switch
 (C) battery, switch, bulb
 (D) wires, bulb, battery