

Science

Date:
Time:3 hrs

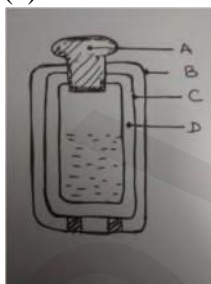
Class: VII
M. M: 90

General Instructions:

1. There are 36 questions in this paper.
2. Read all questions carefully.
3. Marks are indicated against each question.
4. Q25-Q36 are based on practical based questions.
5. All questions are compulsory.

- 1 Name the type of nutrition found in green plants. 1
- 2 What is meant by Sericulture? 1
- 3 What is infiltration of water? 1
- 4 Give one word for the following : 2
- (a) Hardest substance in the human body.
- (b) The long tube with a large number of finger like projections.
- 5 Given below are some examples. Identify the type of change in each of them. 2
- | Example | Change |
|------------------------------------|-----------------|
| E.g. Tearing of cloth | Physical |
| (i) Respiration in animals | |
| (ii) Hammering of metals when hot. | |
| (iii) Burning of paper. | |
| (iv) Evaporation of water. | |
- 6 Ritika has a white dress and a black dress. Which dress will make her more comfortable in (a) winter (b) summer? Give reason for your answer. 2
- 7 (a) In the process of digestion in animals what happens to food in the (i) mouth (ii) small intestine. 3
- (b) What is the role of hydrochloric acid in the stomach?
- 8 Raman lives near sea shore. He observes a brown flaky substance on his iron gate. 3
- a. Name the brown flaky substance formed on the gate.
- b. Write the reaction which takes place between the Iron of the gate and air.
- c. Write any two ways by which the above process can be prevented.
- 9 (a) What is the use of kink in laboratory thermometer? 3
- (b) Convert (i) 50° Fahrenheit to $^{\circ}$ Celsius.
- (ii) 35° Celsius to $^{\circ}$ Fahrenheit.

- 10 An organism 'X' cannot manufacture food on its own .It lives on the body of 'Y', which provides 'X' with food as well as shelter. 3
 (a) What is the general term used for 'X' and 'Y'?
 (b) Give one example of each 'X' and 'Y'.
- 11 (a)Why do insectivorous plants trap insects? 3
 (b) What is the role of chlorophyll in photosynthesis?
 (c) What is symbiotic relationship? Give one example.
- 12 The distance between two cities is 200 Km. A bus takes 5 hours to cover this distance. 3
 Calculate the following:
 (a) Speed of the bus.
 (b) Bus should move at what speed in order to complete the above given distance in 4 hours?
- 13 Give reason: 3
 (a) Human beings are not able to digest cellulose.
 (b)ORS is given to patients suffering from diarrhea.
 (c) Digestion is essential for our body.
- 14 Draw and label the life cycle of a silk moth. 3
- 15 (a) Why clinical thermometer should be washed with an antiseptic solution before and after every use? 3
 (b)Write any one advantage and one disadvantage of using mercury in a thermometer?
- 16 A metal 'A 'coiled in the form of a ribbon burns in air with dazzling white light, to form a white colored ash 'B'. 3
 (a)Name 'A' and 'B'.
 (b) What type of change is occurring in the above case?
 (c) Write word or chemical equation for the above reaction.
- 17 Write any three differences between external and internal respiration. 3
- 18 (a)Label the diagram of a thermos flask given below: 3



(b)Why rooms are provided with ventilators and exhaust fans near the top of side walls?

- 19 (a) Name two traditional methods to store rainwater. 5
 (b) Write any two ways by which you can minimize wastage of water in your society?
 (c) Explain two ways by which groundwater is recharged?
 (d) Write any one advantage of drip irrigation system?
- 20 (a)Draw the diagram of a human respiratory system and label the following. 5
 (i) Trachea (ii) lungs
 (b) Why do whales come out on the surface of water to breathe?
 (c) Soham politely warned his friend to quit smoking and told him that, "Smoking is injurious for health". Why is smoking injurious to health? What value do you learn from Soham?

- 21 A car starts its journey from Shimla at 06:00am. It reaches its destination at 08:00 am. The distance covered by the car at various time intervals are as follows: 5

Distance (Km)	0	10	20	30	40
Time (am)	06:00	06:30	07:00	07:30	08:00

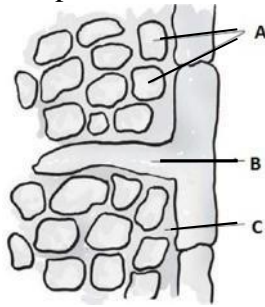
- (a) Draw the distance time graph for the given data.
 (b) Mention the scale chosen by you for distance and time.
 (c) From the graph find out the distance covered by the car at 07:15 am.
 (d) Calculate the average speed of the car in Km/hr.
- 22 (a) Define -selective breeding. 5
 (b) Give reason:
 (i) Cocoons are boiled in hot water.
 (ii) Shearing does not hurt the sheep.
 (c) What is sorter's disease?
 (d) Give one difference between sorting and scouring process.

- 23 Complete the following table: 5

S. No	Parameter	Acidic solution	Basic solution
example	Taste	sour	bitter
1	Touch		
2	Effect on blue litmus		
3	Effect on turmeric powder		

- (b) Write any two ill effects or consequences of discharging untreated factory waste directly into water bodies.
- (a) When is "World Water Day" celebrated? 5
 24 (b) How is construction of dams harmful to our environment? Explain any two points.
 (c) What is potable water?
 (d) Give any two ways by which you will utilize the waste water given out by RO (water purifier) in your house?
- 25 Plants store food in the form of : 1
 (a) Cellulose (b) Sugar (c) Glucose (d) Starch.
- 26 Which of the following is a synthetic fiber: 1
 (a) Rayon (b) Silk (c) Cotton (d) Wool.
- 27 The mode of transfer of heat which requires medium to propagate: 1
 (a) Conduction (b) Convection (c) Radiation (d) Conduction and convection both.
- 28 Exchange of gases is done in the body of cockroach by the help of : 1
 (a) Nostrils (b) Spiracles (c) Gills (d) Lungs.
- 29 On dipping a wooden spoon, iron spoon and a plastic spoon in a glass containing hot water. Which spoon gets heated up first and why? 1
- 30 Give one method we use to get relief from cramps after exercise. 1
- 31 What is the position of the ribs in human body during inhalation and exhalation of air? 1

- 32 Name the instrument which shows the distance travelled by a vehicle? 1
- 33 Give names of any two time measuring devices used in the ancient times. 1
- 34 (a)Observe the picture given below and Label the parts A, Band C. 2
(b)What will happen when we water the plants in excess?



- 35 Sneezing helps in the normal process of respiration. Justify this statement. 2
- 36 On the basis of the situation given below, answer the question that follows. 2
Situation : Rahul brushes his teeth only once in the morning. He is now complaining of tooth ache.
Which substance causes tooth decay and how?