

Apeejay School, Pitampura
SA -I (2016-17)
Class –VII
Subject- Science

Time: - 3 Hours

M.M.-80

General Instructions:

1. This Question Paper contains 25 questions . Marks for each question are indicated against it.
 2. Try to attempt questions in given serial order only.
 3. Draw neat labelled diagrams wherever necessary.
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1. Name and explain the mode of nutrition in mushrooms (2)
 2. Pitcher plants are known as partial heterotrophs. Explain. (2)
 3. Which one will you prefer to protect yourself from cold? Two thin blankets or one thick blanket of double thickness? Give reason. (2)
 4. Define (a) Selective breeding (b) Sericulture (2)
 5. Give two main points of difference between laboratory and clinical thermometer. (2)
 6. Name the type of carbohydrate that can be digested by ruminants but not by humans. Give reason too. (2)
 7. What is photosynthesis? Represent the process with the help of an equation. (2)
 8. How polar bears are adapted to the Polar Regions? Give any 2 main points. (2)
 9. Name any four elements that determine the weather of a place. (2)
 10. Explain the first two steps involved in processing of wool. (2)
 11. Classify the following into Acidic, Basic or Neutral. How will you use litmus indicator for this purpose?
 - a) Detergent solution.
 - b) Vinegar
 - c) Sugar solution(3)
 12. Ali found that maximum temperature of a city on a particular day is 18 ° C. He concluded that the city has a cool climate. Is he right in his conclusion? Give reasons in support of your answer. (3)
 13. Give reason:
 - (a) An antacid tablet is taken to get relief from acidity.
 - (b) Calamine solution is applied on the skin when an ant bites.(3)
 14. Human digestive system consists of three main digestive glands which secrete digestive juices. Name them and their secretions. (3)
 15. What is symbiotic relationship? Explain how it is maintained in Lichens. (3)
 16. For each of the following characteristics of animals indicate whether it is adaptation for tropical rainforests or Polar Regions. Explain how this characteristic is useful to the animal?
 - (a) Sticky pads on feet
 - (b) Wide and large paws(3)

17. On addition of few drops of Phenolphthalein to a colourless solution, Indu found that it remained colourless. She concluded that the solution must be neutral.
(a) Was she right in her conclusion? Why/Why not?
(b) If her conclusion was not right, suggest her a way to reach at correct conclusion. (3)
18. What is neutralization reaction? Give word equation of one example. (3)
19. (a) What happens to the heat which falls on some object?
(b) Name three modes of transfer of heat (3)
20. Which part of the digestive canal is involved in
(i) Absorption of food
(ii) Chewing of food
(iii) Killing of bacteria (3)
21. (a) Photosynthesis can take place in some leaves other than green. Explain.
(b) 'cuscuta' cannot synthesise food through photosynthesis. Why? Explain how it derives nutrition? What is the name given to such plants? (5)
22. What is amoeba? Explain the process of ingestion, digestion and egestion of food in it. (5)
23. Draw neat labelled diagram of life cycle of Silk moth . (5)
24. Following activity was carried out in a Science class-
(i) Magnesium ribbon was burnt
(ii) Ash was collected and dissolved in water
(iii) Solution of step (ii) was tested with blue and red litmus paper.
Based on this activity answer following
(a) Write observation and word equation of Step(i)
(b) Word equation of step(ii)
(c) Observation and conclusion of step (iii) (5)
25. (i) Classify the following as physical or chemical changes.
(a) dissolving sugar in water
(b) melting of wax
(c) burning of coal
(d) rusting of iron
(e) photosynthesis
(f) digestion of food
(ii) Suggest two ways to prevent rusting of articles. (3+2=5)
26. People living in coastal area experience sea breeze. Draw relevant diagram too. (5)