

Class: VII  
Subject: Science

Max. Marks: 80  
Time Allotted: 2½ hrs

**SECTION A**

**I. Fill in the blanks –** 10 X 1M = 10M

1. The average weather taken over a long time is called \_\_\_\_\_.
2. Changes in which new substances are formed are called \_\_\_\_\_.
3. Clothes of \_\_\_\_\_ colours absorb heat better than clothes of light colours.
4. Air expands on \_\_\_\_\_.
5. The largest gland in the human body is \_\_\_\_\_.
6. In photosynthesis, solar energy is captured by a green coloured pigment called \_\_\_\_\_.
7. Wind is \_\_\_\_\_ air.
8. Nitric acid turns \_\_\_\_\_ litmus \_\_\_\_\_.
9. High speed winds and air pressure difference cause \_\_\_\_\_.
10. The rearing of silkworms for obtaining silk is called \_\_\_\_\_.

**SECTION B**

**II. Choose the correct option –** 10 X 1M = 10M

11. Water from the undigested food is absorbed mainly in the  
(a) stomach (b) food pipe (c) small intestine (d) large intestine
12. A Cyclone warning is issued \_\_\_\_\_ hours in advance.  
(a) 12 hours (b) 24 hours (c) 10 hours (d) none of these
- 13.. The acid present in the ant's sting is -  
(a) Lactic acid (b) Formic acid (c) Acetic acid (d) Citric acid
14. Which of the following does not yield wool?  
(a) Yak (b) Camel (c) Goat (d) Woolly dog
15. A wooden spoon is dipped in a cup of ice-cream. Its other end  
(a) becomes cold by the process of conduction  
(b) becomes cold by the process of convection  
(c) becomes cold by the process of radiation  
(d) does not become cold
- 16.. Which option best describes a tropical region?  
(a) hot and humid (b) cold and humid (c) hot and dry (d) moderate temperature
17. The water holding capacity is the highest in  
(a) sandy soil (b) clayey soil (c) loamy soil (d) mixture of sand and loam
18. Which one of the following place is **unlikely** to be affected by a cyclone –?  
(a) Chennai (b) Mangaluru (Mangalore) (c) Amritsar (d) Puri
19. The method of heat transfer which does not require any medium to travel through -  
(a) Convection (b) Radiation (c) Conduction (d) None of these
20. \_\_\_\_\_ are bitter in taste, soapy to touch and turn red litmus blue.  
(a) Acids (b) Salts (c) Bases (d) None of these

## SECTION C

Answer the following questions in **two or three sentences** –  $8 \times 2M = 16M$

21. Show with the help of a sketch that the plants are the ultimate source of food.
22. Give two examples each of conductors and insulators of heat.
23. Distinguish between a parasite and a saprotroph.
24. Why is an antacid tablet taken when someone suffers from acidity in stomach ?
25. How does painting of an iron gate prevents it from rusting ?
26. Where is the bile produced ? Which component of the food does it help to digest ?
27. Write the difference between sea breeze and land breeze.
28. Identify the changes involved in the following processes as physical or chemical changes –
  - (a) Photosynthesis
  - (b) Melting of wax

## SECTION D

Answer the following questions in **three to four sentences** –  $8 \times 3M = 24M$

29. Name the following –
  - (i) a parasitic plant with yellow, slender and tubular stem
  - (ii) a plant that has both autotrophic and heterotrophic mode of nutrition
  - (iii) the tiny pores through which leaves exchange gases
30. Give three differences between clayey soil and sandy soil
31. Explain the following terms: (i) Rearing (ii) Shearing (iii) Sericulture
32. Draw the soil-profile and label the various parts.
33. Name the elements that determine the weather of a place.
34. Make sketches of the two stages in the life history of the silk moth which are directly related to the production of silk.
35. Razia conducted an experiment in the field related to the rate of percolation. She observed that it took 40 minutes for 200 ml. of water to percolate through the soil sample. Calculate the rate of percolation.
36. Look at the figure. Write where the heat is being transferred – (i) by conduction (ii) by convection (iii) by radiation



## SECTION E

Answer the following questions in **five sentences or a paragraph** –  $4 \times 5M = 20M$

37. Draw and label the parts of the human digestive system.
38. State differences between acids and bases.
39. What planning is required in advance to deal with the situations created by a cyclone ?
40. How does an elephant living in the tropical rainforest adapt itself ?