

**Date:**

**Class: VI**

**Science**

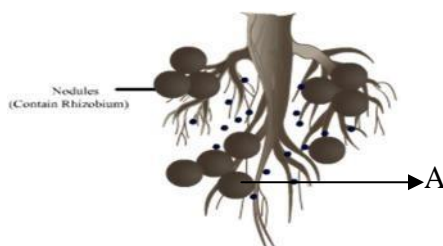
**Time: 3 hrs**

**M. M: 90**

*General Instructions:*

1. There are 36 questions in this paper.
2. Marks are indicated against each question.
3. Q25 to Q36 are based on practical skills.
4. All questions are compulsory.

- |    |   |   |
|----|---|---|
| 1  | Leaves of a plant have reticulate venations. What type of root would it have?   | 1 |
| 2  | Define the pole of a magnet.  | 1 |
| 3  | Which gas is filled in an electric bulb and why?  | 1 |
| 4  | Why does the police man regulating traffic wear a mask?   | 2 |
| 5  | What is a reflector in an electric torch? Mention its function.   | 2 |
| 6  | Give two differences between a cell and a battery.  | 2 |
| 7  | a) Identify the cause behind the following changes<br>(i). Making a lemonade<br>(ii). Burning of an incense stick<br>(iii). Making a dough<br>b) Explain with the help of an example that expansion and contraction are reversible processes. | 3 |
| 8  | Differentiate between exothermic and endothermic change. Identify the following as endothermic or exothermic change and reversible or irreversible change.<br>a) Burning of coal<br>b) Melting of wax.  | 3 |
| 9  | Give reason<br>a) Electric wires become loose in summer.<br>b) Burning of oil in a wick is a chemical change.<br>c) Transformation of water into steam is a reversible change.  | 3 |
| 10 | a) Mention two important functions of a stem in a plant.<br>b) Explain two stem modifications with one example each.  | 3 |
| 11 |   | 3 |



a) Label the part A in the root of the plant in the given figure. Name the bacteria present in

the part A. What is the function of bacteria present in A.

b) Why does the rose plant not have tendrils?

12 Give reason for the following

a) Aquatic plants have short and small roots.

b) Frogs have webbed feet

c) Mountain trees are cone shaped.

3

13 What do you mean by habitat? What is the habitat of the polar bear? Give three adaptations in polar bears which help them to survive in their habitat.

3

14 a) A society has been using underground water continuously for 5 years. As a result, no more underground water could be pumped out from the same depth, so it had to be further dug up. Why do you think this situation occurred? How can this situation be avoided in future?

3(1+2)

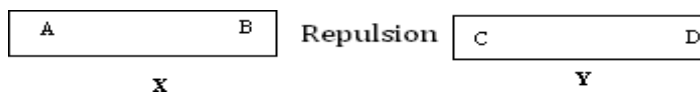
b) Explain the formation of clouds.

15 What is a magnetic compass? On which property of the magnet does it work? In which direction does the magnetic needle placed inside the compass point?

3

16 a) Study the magnets 'X' and 'Y' given below

3



i) If B is the north pole of the magnet X, where is the north pole of magnet Y.?

ii) What will happen if A is brought near C?

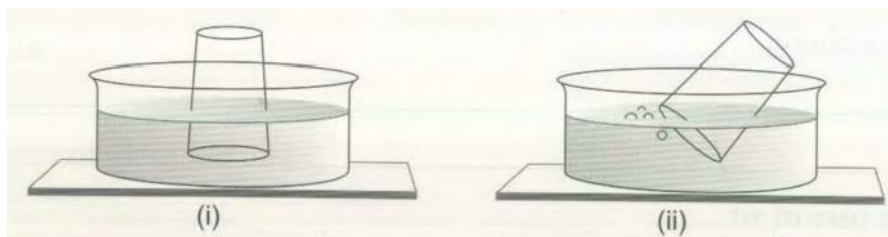
b) Give any two uses of magnets in our daily life.

17 Write an activity to show the presence of air in soil.

3

18 Study the following figure and answer the questions that follow:

3



a) Explain why the water is not getting filled inside the glass in fig (i).

b) What happened on tilting the glass slightly in fig (ii)

c) State any two properties of air.

19 a) Rohan wants to make his own magnet. With the help of diagram describe to him briefly, the method of making a magnet.

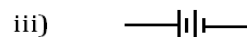
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b) Give three ways by which the magnet may lose its magnetic strength.

20 a) What is an electric circuit?

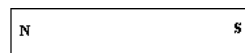
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b) Identify the following electrical components and draw a simple electric circuit using these components.



c) Name and define the two types of combinations in electric circuits.

- 21 a) What is atmosphere? Why is atmosphere essential for life on earth? Why do mountaineers carry oxygen cylinders with them while climbing high mountains? 5  
 b) When water is heated in a beaker, tiny bubbles appear inside the beaker. Give reason for this. Give one example in daily life where the same phenomenon is involved.
- 22 i) With reference to smoke answer the following 5  
 a) What is its composition?  
 b) How is it produced?  
 c) Write any two of its harmful effects.  
 ii) Why are tall chimneys installed in factories?
- 23 a) Explain roof top rain water harvesting with the help of a diagram . 5  
 b) Give two ways by which the harvested rain water can be used further.
- 24 a) What do you mean by 'water conservation'? 5  
 b) Why is it essential to conserve water?  
 c) Give three ways by which you can conserve water at home.
- 25 Name the process which is involved in the formation of a) dew b) water table 1
- 26 The magnet given in fig 'i' is broken in to two parts from the center. Mark the North and South poles of the magnet in fig 'ii' 1

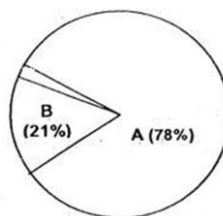


(i)



(ii)

- 27 Give one word for the following 1  
 a) Device which is used to open or close a circuit.  
 b) Part of the bulb which glows when electric current flows through it.
- 28 Name the type of magnet which is used to separate magnetic materials from non-magnetic materials in junk yard. 1
- 29 If we touch the leaves of the Mimosa (Touch me not) plant with our fingers, then they fold up or droop. Identify the stimulus in this case. 1
- 30 Earthworms come out of soil after heavy rainfall. Why? 1
- 31 What should be done if the clothes of a person catch fire accidentally? 1
- 32 Given below is the pie chart showing the percentage of gases in the air. Write the names of gases A and B 2



- 33 Why Dolphins swim near the surface of the water? 1
- 34 Give two points as to why Delhi government introduced the odd-even formula for vehicles on road in January 2016? 2
- 35 Why does a lump of cotton wool fly in the air whereas it sinks in water? Give reason. 2
- 36 What will happen to the rate of evaporation on a 1  
 a) cloudy day  
 b) sunny day