



CBSE
Class VI Science

Time: 3 hrs

Total Marks: 100

General Instructions:

1. The question paper consists of 44 questions and is divided into four sections, A, B, C and D
 2. All questions are compulsory.
 3. Section A comprises of question numbers 1 to 20. These are multiple choice questions carrying one mark each. You are to select one most appropriate response out of the four provided options.
 4. Section B comprises of question numbers 21 to 30. These are SAQ's carrying two marks each.
 5. Section C comprises of question numbers 31 to 40. These are SAQ's carrying four marks each.
 6. Section D comprises of question numbers 41 to 44. These are SAQ's carrying five marks each.
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SECTION-A

Attempt all questions from this section.

1. Which layer of the soil is carried away with flowing rain water? [1]
(a) Bed rock
(b) Top soil
(c) Mid layer
(d) Phosphorus
2. What is added to a paste of rice husk and paper to make papier mache? [1]
(a) Humus
(b) Water
(c) Alcohol
(d) Clay
3. Which organ of the frog helps it to swim in water? [1]
(a) Legs
(b) Webbed feet
(c) Lungs
(d) Scales



4. Which structure of a red worm helps it to grind food? [1]
(a) Crop
(b) Spiracles
(c) Gizzard
(d) Stomach
5. The process of condensation is the reverse of [1]
(a) Evaporation
(b) Condensation
(c) Transpiration
(d) Elimination
6. By which process do living things produce more of their own kind organisms? [1]
(a) Circulation
(b) Respiration
(c) Reproduction
(d) Excretion
7. Which bin is used for collecting materials which can be used again? [1]
(a) Blue
(b) Green
(c) Red
(d) Yellow
8. A mixture of pebbles and stones from sand can be separated using [1]
(a) Decantation
(b) Filtration
(c) Sieving
(d) Hand picking
9. In a solution, the substance in which another substance is dissolved is called the [1]
(a) Soluble
(b) Solute
(c) Solvent
(d) Supernatant
10. Heating tar while making a road is an example of [1]
(a) Chemical change
(b) Reversible change
(c) Evaporation
(d) Irreversible change

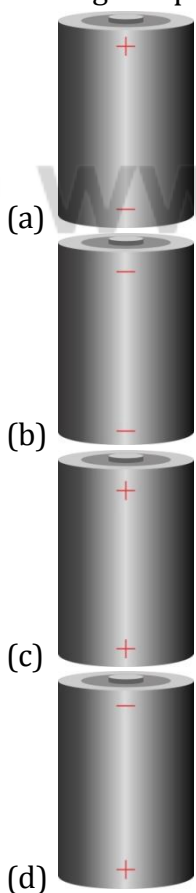


11. Falling of a tree branch is an example of [1]
(a) Reversible change
(b) Irreversible change
(c) At high altitudes - reversible change and at low altitudes – irreversible change
(d) No change

12. Tiny bubbles seen on the surface of boiling water is [1]
(a) dissolved air escaping when water is heated.
(b) dissolved impurities in water escaping when water is heated.
(c) dissolved nitrogen in water escaping when water is heated.
(d) air dissolving in water.

13. Which of the following processes does not help in recycling carbon dioxide back into the air? [1]
(a) Respiration
(b) Combustion
(c) Photosynthesis
(d) Burning

14. In the given pictures, which one shows the correct sign positions? [1]



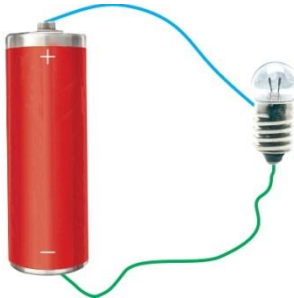


15. To make an electric circuit, we can use [1]

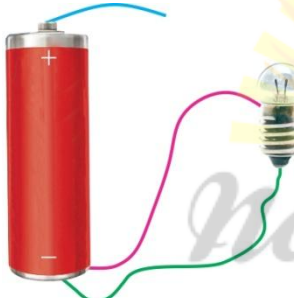
- (a) Cotton wires
- (b) Metal wires
- (c) Silk threads
- (d) Plastic threads

16. Observe the given diagrams. Which one shows the complete circuit? [1]

(a)



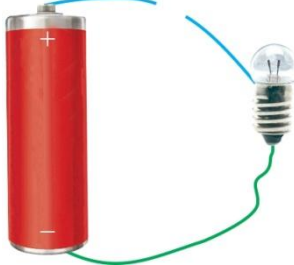
(b)



(c)



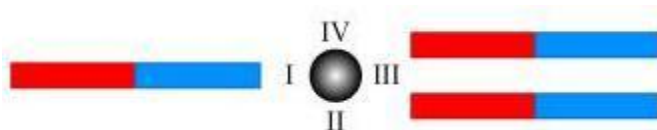
(d)





17. In which circuit will the bulb or bulbs glow brightest? [1]
- (a) A simple circuit with one bulb and one battery.
 - (b) A simple circuit with one bulb and two batteries.
 - (c) A simple circuit with two bulbs and one battery.
 - (d) Bulb/bulbs will be equally bright in all the above cases.

18. In an experiment, Rodger places a small iron ball between three magnets of equal strengths, as shown in the given figure. The magnets are at equal distances from the ball. The ball will move towards point [1]

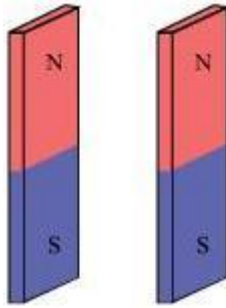


- (a) I
 - (b) II
 - (c) III
 - (d) IV
19. Iron filings stick most to which part of the magnet? [1]
- (a) North Pole of the magnet
 - (b) South Pole of the magnet
 - (c) Centre of the magnet
 - (d) Ends of the magnet

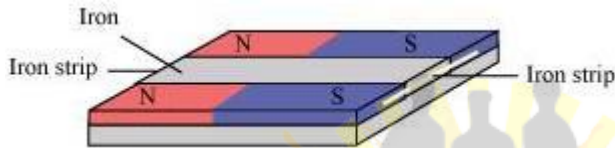


20. Ajay has two bar magnets, as shown in the given figure. He wants to store them safely. Which of the following diagrams correctly shows the method employed by Ajay? [1]

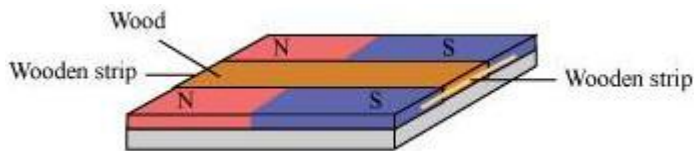
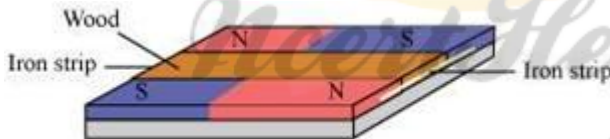
(a)



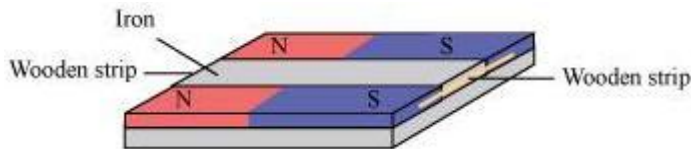
(b)



(c)



(d)

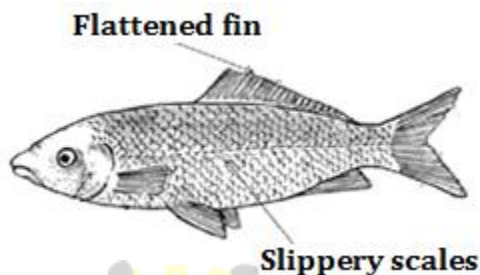


SECTION-B

21. What is the importance of the water cycle in nature? [2]

22. Many things are added into the thick paste of paper before spreading it during its recycling in order to get beautiful patterns. Name any four such things. [2]

23. What advantage do the highlighted features give to a fish? [2]



24. Why does water disappear from wet surfaces after sometime? [2]

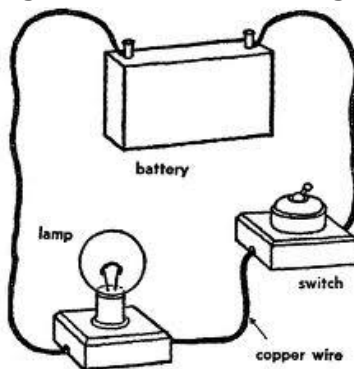
25. How will you separate a mixture of oil and water? [2]

26. How can the process of expansion be used to fix a metal rim tightly on a wooden wheel? [2]

27. Why is carbon dioxide gas used to extinguish fire? [2]

28. What are non-magnetic materials? Give any two examples. [2]

29. Will the bulb glow in the arrangement shown in the figure? Give reasons. [2]





SECTION-C

- 31.** [4]
- (a) Give reasons:
- We should not put wastes containing salt, oil and milk preparations in waste pits as food for red worms.
 - It is better to mix powdered egg shells or sea shells with the wastes to be put in waste pits.
- (b) What type of conditions do red worms need to survive well?
- 32.** [4]
- (a) What are the problems faced by people due to drought?
- (b) What is the basic idea behind rainwater harvesting?
- 33.** [4]
- (a) What will happen if garbage is not removed from our homes and surroundings regularly?
- (b) A person needs to dispose two wastes- broken glass pieces and used paper bags. In which bin (blue or green) will he put these wastes?
- 34.** 'Living beings respond to stimuli'. Cite any two examples each of animals and plants to illustrate the same. [4]
- 35.** Explain the reasons for separating mixtures into their components with the help of examples. [4]
- 36.** Classify the following changes as irreversible and reversible with explanations: [4]
- Inflating a balloon and it
 - Rolling a roti and baking a roti
- 37.** [4]
- (a) Define combustion.
- (b) Describe an activity to show that air (oxygen) is necessary for the combustion of



38. [4]

(a) Identify the type of magnets:

i.



ii.



(b) How did travellers use magnets to find directions in the olden days?

39. How can we make an electric switch? [4]

40. When iron fillings are spread on a sheet and a bar magnet is placed on it, what do you observe? Do you find anything special about the way they arrange themselves? [4]

SECTION-D

41. How are camels adapted to survive in a desert? [5]

42. [5]

(a) How is rainwater harvesting done in open spaces?

(b) What are the two main techniques of rainwater harvesting?

43. [5]

(a) Define reversible and irreversible changes.

(b) With the help of three examples, explain the difference between changes which can or cannot be reversed.

44. [5]

(a) Describe a procedure to make a home-made torch.

(b) What are conductors? Give two examples of a conductor.