



SINDHI HIGH SCHOOL,
HALF YEARLY EXAMINATION [2023-24]
SUBJECT: SCIENCE

Class: VI

Max. Marks: 80

Duration : 2½ hrs

Date: 4.10.2023

Reading time: 15 mins

No. of sides: 6

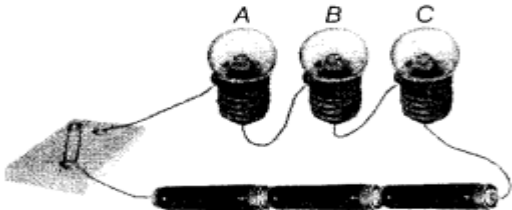
Writing time: 2½ hrs


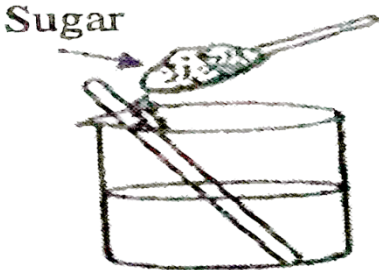

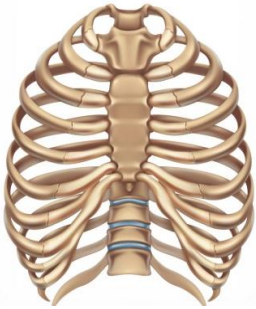
GENERAL INSTRUCTIONS:

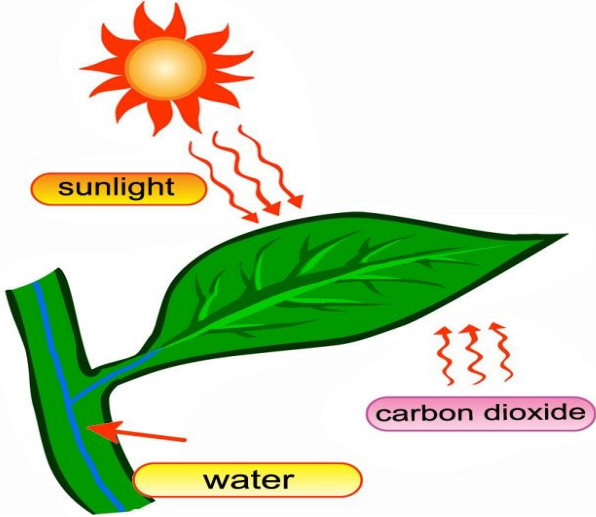
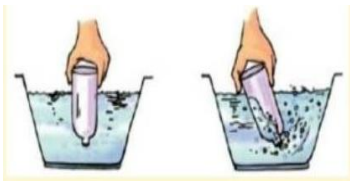

This Question Paper has 5 Sections A-E.

1. This question paper consists of 39 questions in 5 sections.
2. All questions are compulsory.
3. **Section A** consists of 20 objective type questions carrying 1 mark each.
4. **Section B** consists of 6 Very Short questions carrying 02 marks each. Answers to these questions should be in the range of 30 to 50 words.
5. **Section C** consists of 7 Short Answer type questions carrying 03 marks each. Answers to these questions should be in the range of 50 to 80 words.
6. **Section D** consists of 3 Long Answer type questions carrying 05 marks each. Answer to these questions should be in the range of 80 to 120 words.
7. **Section E** consists of 3 source-based/case-based units of assessment of 04 marks each with sub-parts.

	SECTION A	
Q. NO	Section A consists of 20 questions of 1 mark each.	MARKS
1.	Some shining materials lose their shine and appear dull in due course of time. Which one of the following is not a reason for the dullness over the surface of the metal? a) Materials react with nitrogen in air to form a layer over it. b) Materials have a layer formed due to the action of air and moisture on them. c) Materials react with oxygen to form a layer over it. d) Materials have a layer formed by the action of water vapour in air.	1
2.	Identify the material used to cut glass and grind rocks a) Steel b) Aluminium c) Diamond d) Iron	1
3.	We should not sleep under a tree at night because a) Oxygen is released by plants at night. b) Carbondioxide is released by plants at night. c) Nitrogen is released by plants at night. d) Leaves and branches might fall on us at night.	1
4.	“ Food gets cooked well in <u>copper</u> vessels.” The property associated with the underlined material is a) Texture b) Solubility c) Appearance d) Conduction of heat	1
5.	Plants like Creepers have i) weak stems that cannot stand upright and spread on the ground. ii) weak stems that cannot stand upright and cannot climb. iii) heavy fruits. iv) light fruits. a) ii, iii b) i, iii c) ii, iv d) i, iv	1

14.	The SI unit of length and mass is a) meter and kilogram b) hour and kilogram c) meter and litre d) kilometre and gram	1
15.	In the given circuit, when the switch is moved to ON position, then  a) the bulb A will glow first b) the bulb B will glow first c) the bulb C will glow first d) all bulbs will glow together	1
16.	A fused bulb does not glow because a) the circuit is complete and therefore, current doesn't flow through it. b) there is no power, therefore, current doesn't flow through it. c) the filament is broken and the circuit is incomplete, therefore, current doesn't flow through it. d) the connections are incorrect, therefore, current doesn't flow through it.	1
	Assertion Reason based question: In the following questions a statement of assertion (A) is followed by a statement of Reason(R). Choose the correct option. a) Both A and R are true, and R is the correct explanation of A. b) Both A and R are true, and R is not the correct explanation of A. c) A is true but R is false. d) A is false but R is true.	
17.	Assertion: Grouping of substances based on their similarities and dissimilarities is called classification. Reason: Classification makes study of objects simple, easy and systematic.	1
18.	Assertion: A measuring tape or thread is used to measure a curved line. Reason: A curved line or surface can be measured by a straight scale.	1
19.	Assertion: Two muscles work together to make a bone move. Reason: A muscle can only pull, it cannot push.	1
20.	Assertion: The application of switches is to light electric bulbs and other devices. Reason: Switch is a simple device that either breaks the circuit or completes it.	1
	SECTION B	
	Section B consists of 6 questions of 2 marks each.	
21.	a) Give one example each of a material that will float and sink in water. b) What will happen to honey if it is dropped in water?	2
22.	Correct the statements given below and rewrite them. a) Leaves absorb water and minerals from the soil.	2

	b) The plants lose out excess water through the stomata present in the stem.	
23.	 <p>a) Identify the type of root shown in the given picture. b) Mention the type of leaf venation found in these plants. c) Name any two plants with these type of roots and leaves.</p>	2
24.	Four friends measured the length of a field. All of them got different results. List any two reasons for such variation in the results.	2
25.	Mention the importance of conductors and insulators with a suitable example.	2
26.	With an example list any two adaptations seen in organisms that move through air.	2
SECTION C		
Section C consists of 7 questions of 3 marks each.		
27.	<p>Give reasons for the following</p> <p>a) Mountaineers carry oxygen cylinders while they climb mountains. b) We must always breathe through our nose rather than our mouth. c) Volume of water doesn't increase when salt is added to water.</p>	3
28.	<p>Study the figures given below and answer the following questions:</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> </div> <p>a) Which of the figure A or B will form a solution and why? b) What will happen in figure B after some time? c) If sand is replaced with oil in figure A, what would be your observation?</p>	3
29.	To which type of category do these plants Rose, Mango and Tomato belong to? Write any two important characters necessary to group them.	3
30.	 <p>Observe the given figure and answer the given questions.</p> <p>a) Name the organs protected by this part of the skeletal system. b) Mention the large bone in the front and the small bones at the back to which the curved pairs of bones are attached? c) How are the last two pairs different from the other pairs of curved bones?</p>	3

31.	Ganapat has an electric cell and a single piece of connecting wire. Without cutting the wire into two, will he be able to make the bulb glow? Explain with the help of a circuit diagram.	3
32.	a) Rajiv measured the length of the pole. It was 4 meters long, express this in centimetres. b) Name the type of motion observed in the following (i) Spinning top (ii) Plucking of the rubber band (iii) Movement of the swing (iv) Shotput thrown by an athlete	3
33.	Observe the given figure and answer the questions below.  a) Name the process seen in the given figure. b) Where does exchange of gases occur in the leaves? Name the gases that are required and released in this process. c) Mention the pigment that helps in this process. Write its role in this process.	3
SECTION D		
Section D consists of 3 questions of 5 marks each.		
34.	a) Observe the given pictures A and B and write the property of air shown in the picture. <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> </div> b) The gas X is colourless and odourless, having a slightly sour taste which is a minor component of air. It is moderately soluble in water. This gas neither burns nor supports burning. It rather extinguishes burning fire. If there was no gas X in air, then there would be no plants or animals existing on earth. i) Name the gas X. ii) State the percentage of gas X in air. iii) Why is gas X important for our life?	5
35.	a) Draw a neat labelled diagram of a flower. b) Write any two important functions of the stem.	5

36.	<p>a) Write the similarities and differences between the motion of a bicycle and a ceiling fan that has been switched on.</p> <p>b) Sometimes objects exhibit different types of motions at the same time, this is called multiple motion. In the given examples identify the object that exhibits multiple motion and name the type of motions observed. Movement of swing, Sewing machine, Swinging of the arms.</p>	5
	SECTION E	
	Section E consists of three Case study questions of 4 marks	
37.	<p>Karthik was constructing his new house. He has three long glass windows in the hall. He got one of his glass window pane painted with light yellow colour, the other one with black and he left the third window pane as it is.</p> <p>a) Through which window pane can he see the things on the outside clearly?</p> <p>b) Through which window will he be unable to see anything on the outside?</p> <p>c) What will happen when he views outside through the yellow window pane?</p> <p>d) Give examples of any other two objects through which we cannot see clearly.</p>	4
38.	<p>Two or more bones join together at our knees, elbow, etc. We can bend and move our bones at these points. There are different such points in our body that help in carrying out different movements and activities.</p> <p>1) What are these points called? Name the point present at the elbow.</p> <p>2) Which point is present at the shoulder? How does this point help move our shoulder?</p> <p>3) What are the points that do not allow any movement called? Give an example.</p> <p>4) Tough elastic tissue is present between these points. Name it and write its importance.</p>	4
39.	<p>An electric bulb has an outer glass case. It has a filament that is connected to the terminals. The two terminals of the filament are fixed with two thick wires that provide support to it. These terminals are fixed in such a manner that they do not touch each other and help the bulb glow when the connections are complete.</p> <p>1) Draw a bulb showing the positive and negative terminals of the electric bulb?</p> <p>2) Mention the metal used to make the filament of a bulb.</p> <p>3) When a crow sits on an electric wire it doesn't get electrocuted. Give reason.</p>	4
