

Sample Paper – 4

# Goa Board Class VIII Science Term 1 Sample Paper - 4

#### 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 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 question numbers 21 to 30. These are SAQs carrying two marks each.
- 5. Section C comprises question numbers 31 to 40. These are SAQs carrying four marks each.
- 6. Section D comprises question numbers 41 to 44. These are SAQs carrying five marks each.

### **SECTION A**

<b>Q. 1</b> Atmospheric nitrogen does not get fixed through	(1)
A. Rhizobium bacteria	
B. Action of lightning	
C. Clostridium bacteria	
D. Action of plants	
<b>Q. 2</b> Which oil is obtained from fish?	(1)
A. Hair oil	
B. Fuel oil	
C. Cod liver oil	
D. Olive oil	
Q. 3 Chemical fertilisers may get washed into water bodies through a process called	(1)
A. Manuring	
B. Leaching	
C. Sowing	
D. Drilling	
<b>Q. 4</b> Which is not a symptom of food poisoning? (1)	
A. Vomiting	
B. Stomach ache	

- C. Loose motions
- D. Swelling of the face



Sample Paper – 4

A B C	<ul> <li>That is false about deforestation?</li> <li>It reduces biodiversity of that area.</li> <li>It ensures better survival of animals of the area.</li> <li>It uproots several organisms from their habitat.</li> <li>It is carried out by humans to use the land for other purposes.</li> </ul>	(1)		
pr A B C	The indiscriminate killing of which of the following animals can lead to loss in roduction of food grains? A. Birds B. Snakes C. Grasshoppers D. Rats	the (1)		
br A B C	That type of plastic is used for making grocery bags and for packaging of foods and read? A. Thermosetting B. Thermoplastic C. All plastic D. All polymers	(1)		
A B C	Which of the following can be decomposed easily? A. Cellulose B. Rayon A. Nylon D. Acrylic	(1)		
A B C	<ul> <li>Thich products are formed when iron (Fe) reacts with dilute hydrochloric acid (HC)</li> <li>FeH<sub>2</sub> + Cl<sub>2</sub></li> <li>FeCl + H<sub>2</sub></li> <li>FeCl<sub>2</sub> + H<sub>2</sub></li> <li>FeCl<sub>2</sub> + H<sub>2</sub></li> <li>Iron does not react with dilute hydrochloric acid.</li> </ul>	l)?(1)		
<b>Q. 10</b> Considering the following reactions, which is the most reactive metal of the given metals? (1)				
11	$Mg + ZnSO_4 \rightarrow MgSO_4 + Zn$	(-)		
	$2Na + MgSO_4 \rightarrow Na_2SO_4 + Mg$			
	$2Na + ZnSO_4 \rightarrow Na_2SO_4 + Zn$			
А	. Na			

- B. Mg
- C. Zn
- D. S
- Q. 11 When silver metal is added to a solution of iron nitrate
  - A. Silver displaces iron
  - B. Iron displaces silver
  - C. No reaction takes place
  - D. The solution catches fire

(1)



Sample Paper – 4

<ul> <li>Q. 12 Which type of coal has 92–98% carbon content?</li> <li>A. Bituminous</li> <li>B. Anthracite</li> <li>C. Lignite</li> <li>D. Peat</li> </ul>	(1)
<ul> <li>Q. 13 Paraffin wax finds its use in the manufacture of</li> <li>A. Candles</li> <li>B. Dry cleaning products</li> <li>C. Plastics</li> <li>D. Paints</li> </ul>	(1)
<ul> <li>Q. 14 Which of the following changes appreciably when a batsman hits a moving criball?</li> <li>1. Shape</li> <li>2. Size</li> <li>3. Direction</li> <li>4. Speed</li> <li>A. 1 and 4</li> <li>B. 1 and 2</li> <li>C. 3 and 4</li> <li>D. 2 and 4</li> </ul>	cket (1)
<ul> <li>Q. 15 If the area on which a force acts is small, it can produce large</li> <li>A. Pressure</li> <li>B. Temperature</li> <li>C. Push and pull</li> <li>D. Expansion</li> </ul>	(1)
<ul> <li>Q. 16 Which type of force is used to keep the refrigerator door closed tightly?</li> <li>A. Magnetic force</li> <li>B. Gravitational force</li> <li>C. Artificial force</li> <li>D. Nuclear force</li> </ul>	(1)
<ul> <li>Q. 17 Which of the following is a suitable method to decrease friction?</li> <li>A. Ball and roller bearing</li> <li>B. Lubrication</li> <li>C. Polishing</li> <li>D. All of the above</li> </ul>	(1)
<ul> <li>Q. 18 Which of the following should be used to reduce friction on a carrom board?</li> <li>A. A lubricating oil</li> <li>B. A dry lubricant</li> <li>C. A layer of grease</li> <li>D. A ball bearing</li> </ul>	(1)



Sample Paper – 4

Q. 19 The voices of men and children are different due to(1)A. Their age(1)B. Their gender(1)C. Their physical features(1)D. The length of their vocal chords(1)				
<ul> <li>Q. 20 When a sound is generated by a vibrating object, the sound wave spreads in</li> <li>A. The direction towards a lighter medium.</li> <li>B. The direction of light energy in the surrounding air.</li> <li>C. The direction towards a denser medium.</li> <li>D. In all the directions around the source of generation.</li> </ul>				
SECTION B				
<b>Q. 21</b> Write any two points to describe the importance of forests. (2)				
<b>Q. 22</b> Discuss two advantages of the drip irrigation system. (2)				
<b>Q. 23</b> How are grains stored in gunny bags or bins? (2)				
Q. 24 Malaria is caused by protozoa. Then why destroying mosquitoes prevents the spread of malaria? (2)				
Q. 25 We should not wear fabrics made of synthetic fibres in hot summer weather. Why?				
<ul> <li>Q. 26 (2)</li> <li>(a) What happens when a piece of copper metal is placed in an iron sulphate solution?</li> <li>(b) Express the following fact in the form of a chemical equation: When a strip of copper metal is placed in a solution of silver nitrate, metallic silver is precipitated and a solution containing copper nitrate is formed.</li> </ul>				
<b>Q. 27</b> List two advantages of using CNG as fuel. (2)				
<b>Q. 28</b> Which force is involved in the bending of our body? Mention any two day-to-day activities which can be performed by exerting such a force. (2)				
<b>Q. 29</b> Comment on the special body shapes of most of the fish. (2)				
<b>Q. 30</b> How do we recognise the different sounds of the same loudness? Give example from everyday life. (2)				



Sample Paper – 4

### **SECTION C**

# Q. 31

(4)

(4)

(4)

(i) Name the following:

- (a) The gradual conversion of the fertile land into deserts due to deforestation.
- (b) The overall increase in the temperature of the Earth due to greater concentration of carbon dioxide in the atmosphere.
- (c) Clearing of forests and using that land for other purposes.
- (ii) How does carbon dioxide cause global warming?

# Q. 32

- (i) How do weeds affect the crops grown in fields?
- (ii) What is a combine? What is its use?

**Q. 33** Name the following:

- (i) A preparation of dead or weakened microbes which is introduced into healthy persons to protect them from a particular disease in the future.
- (ii) The medicines obtained from microorganisms which are used to kill or stop the growth of disease-causing microorganisms.
- (iii) The process of conversion of sugar into alcohol by yeasts.
- (iv) The product obtained by decomposition of plant and animal wastes by microorganisms.

### Q. 34

- (i) What are the two ways in which atmospheric nitrogen gets fixed into usable forms?
- (ii) How do herbivores obtain nitrogen for their body?

# Q. 35

(4)

(4)

(4)

- (i) Explain the difference between thermoplastics and thermosetting plastics (two differences each).
- (ii) Choose the thermoplastics and thermosetting plastics from the following: Melamine, Polythene, Bakelite, Polyvinyl chloride (PVC)
- (iii) Explain why plastic containers are preferred for storing food.
- Q. 36 Differentiate between metals and non-metals on the basis of their chemical properties. (4)

### Q. 37

- (i) What are petrochemicals? Name any two petrochemicals.
- (ii) Why are petrochemicals so important?



Sample Paper – 4

Q. 38 (i) Mention any three points to give the	e importance of gravitational force.			
(ii) Is muscular force a type of contact f		4)		
<b>Q. 39</b> (i) Why do tyres of vehicles have tread (ii) Will it be possible to cut wood with		4)		
Q. 40 (i) Why does sound travel faster in so (ii) Can you tell why astronauts carry is each other?	lids?	4)		
SECTION D				
<ul><li>Q. 41</li><li>(i) Briefly describe the drip irrigation s</li><li>(ii) What are the advantages of the drip</li></ul>	ystem.	5)		
<b>Q. 42</b> Briefly explain the main steps in the ma	itrogen cycle. (	5)		
•	t tubes having a small piece of magnesium Iminium foil in the second test tube, some iror If uncovered copper wire in the fourth test tub			

What happens when these metals react with hydrochloric acid? What inference can you draw from these reactions?

**Q. 44** Describe an activity to demonstrate that sound cannot travel through vacuum. (5)