

CLASS :- VIII

TIME ALLOWED:- 3 HRS

GENERAL INSTRUCTIONS:-

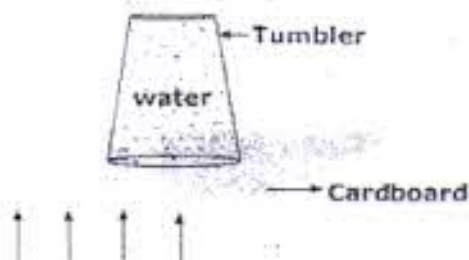
SUBJECT:-SCIENCE
 MAX.MARK:- 90

1. All the questions are compulsory
2. Answer in sequence.
3. Section A consists of 1 mark questions
4. Section B consists of 2 marks questions
5. Section C consists of 3 marks questions
6. Section D consists of 5 marks questions

SECTION A

Answer the following questions in short:

- 1) What do you mean by crop? Give two examples. 1
- 2) Why should we avoid standing close to a tuberculosis patient while he/she is coughing? 1
- 3) What do the following stand for : PET and PVC ? 1
- 4) Why is the iron pillar near Qutub Minar in Delhi considered a metallurgical wonder by archeologists and metallurgists all over the world? 1
- 5) Name the products which are formed when zinc reacts with sulphuric acid. 1
- 6) How is burning of fossil fuels thought to be related to global warming? 1
- 7) What do you mean by protoplasm? 1
- 8) Name two lubricants which are used to reduce friction. 1
- 9) Look at the picture below and identify the aim of the experiment depicted by the same. 1



SECTION B

- What points must be kept in mind during sowing seeds? 2
3. Give one example of each 2
- i) a communicable disease
 - ii) a bacterium residing in intestine of man
 - iii) an antibiotic obtained from fungi
 - iv) nitrogen fixing bacteria
4. Give two uses of each of 2
- i) Acrylic
 - ii) Nylon
5. What happens when 2
- i) Sodium is placed in water ?
 - ii) Sulphur dioxide is dissolved in water ?
- (Write the chemical equations of the reactions involved.)
6. What is a displacement reaction? Explain the statement "Iron can displace copper from its salt solution but copper cannot displace iron from its salt solution" 2
7. (a) Explain two types of combustion of hydrocarbons. 2
- (b) Differentiate between combustible and noncombustible substances.
8. Differentiate between prokaryotic cells and eukaryotic cells. 2
9. It is easier to roll than to pull a big drum along a road .Why? 2
10. Which zone of a flame does a goldsmith use for melting gold and silver and why? 2
11. Give reason for your answer. 2
- a) Dams are made stronger and thicker at the bottom than at the top .Why?
 - b) A balloon burst when too much air is blown into it .Why?

SECTION C

Differentiate between Natural fertilizers and Chemical fertilizers. (Give four points) 3

What is nitrogen fixation? How do leguminous plants help in nitrogen fixation? 3

Complete the following table :- 3

Disease	Mode of transmission	Causative pathogen
Cholera		
Ringworm		
Chickenpox		

Define the following terms 3

i) Rennet ii) Specimen ii) Food irradiation

OR

Give reasons for the following:-

- Mosquitoes can be controlled by preventing stagnation of water, though they do not live in water. Why?
- Raw vegetables and fruits are kept inside the refrigerator whereas jams and pickles can be kept outside. Why?
- Name two microorganisms which keep our environment clean. Also explain how do these microbes keep our environment clean?

- Differentiate between thermoplastics & thermosetting Plastics. 3
- Give the properties and uses of the fibre that is used for making swimming costumes. 3
- Magnesium when burnt in air produces a white substance, which dissolves in water to form a solution. What is the chemical name of this white powder formed? How will you test the solution for its acidic/ basic nature? What would be the chemical nature of the solution? 3
- Differentiate between luminous and non-luminous flame. 3

What are the functions of the following in a cell?

3

(a) cell membrane (b) nucleus and (c) mitochondria

21 Give reasons:

3

(a) If you try to hold a glass with oil on your hands, it tends to slip.

(b) When you rub your hands together, they become warm.

(c) Airplanes have a streamlined shape.

22 Friction is a necessary evil. Explain

3

23.

3



Look at the given picture. How is the boy able to drink juice

with the help of the straw? The girl finds it difficult to drink hers with her straw as her straw has a small hole in it. Can you explain why?

SECTION D

24. Explain five major groups of microorganisms with examples.

5

OR

Explain any five commercial uses of microorganisms.

25. Explain the harmful effects associated with the disposal of plastics. Why is the government trying to ban plastic bags and promote paper bags though they are stronger than the plastic bags?

5

26 How can you show that a substance does not catch fire below its ignition temperature?

5

(Write Aim, Materials required, Procedure, Observation & Conclusion; Draw required figures.)

27 Compare plant cell and animal cell for their similarities and differences with the help of neat and well labelled diagram of both.

5

28 Design an activity to study the effect of mass of a body on friction. (Write Aim, Materials required, Procedure, Observation & Conclusion also draw figures)

5