

MID-SEMESTER EXAM

SUBJECT – Science

STD – 8th

MARKS – 50

Q1) DEFINE/MCQ/Fill in the blanks (10x1 marks)

- ✓ 1. What is bacteria
2. Full form of aids –
3. Inertia
4. Potential Difference
5. Nucleus
6. Valence electrons
7. Chemical bonds
8. Lustre
9. Ozone layer
10. Osmosis

Q2) Answer the following (any 5x2 marks)

- ✓ 1. Explain Viruses
2. Classify the following pollutants into natural and manmade categories.
3. Sewage, dust, pollen grains, chemical fertilizers, vehicular smoke, algae, pesticides, waste of animals and birds
4. Lead cell, write note
5. Explain solution
6. Atom is electrically neutral, Give reason
7. The stainless steel vessels in kitchen have copper coating on the bottom, give reason.
8. Isotonic solution – write note on

Q3) Answer the following (any 3x3 marks)

1. Rutherford's scattering experiment, write note on.
2. Differentiate between infectious and non infectious disease.
3. Buoyant Force, write note on

4. 2. Calculate the relative density of iron if the density of water is 10^3 kg/m^3 and the density of iron is $7.85 \times 10^3 \text{ kg/m}^3$
5. Differentiate between Eukaryotic and Prokaryotic cells

Q4) Draw neat and labelled diagram of (any 2x3 marks)

1. Different types of bacteria.
2. Rutherford's scattering experiment
3. Mitochondria

Q5) Answer in detail (any 3x5 marks)

1. Match the following

A	B
Fungi	<i>Chlorella</i>
Protozoa	Bacteriophage
Virus	<i>Candida</i>
Algae	<i>Amoeba</i>
Bacteria	Prokaryotic

2. Make a list.

a. Viral diseases. b. Bacterial diseases. c. Diseases spread through insects.

3. Master 'X' is a 3 year old child. He is living with his family in a slum. Public toilet is present near his house. His father is drunkard. His mother does not know the importance of balanced diet.

a. Master 'X' can suffer from which different possible diseases in above conditions?

B. How will you help him and his family in this situation?

c. Which disease can occur to the father of master 'X'?

4. Explain manmade and natural reasons for water pollution

5. Give functions.

- a. Plasma membrane
- b. Cytoplasm
- c. Lysosome
- d. Vacuole
- e. Nucleus