

SCIENCE IX

TIME : 3 hrs.

M.M. 60

- Questions 1, 2, 9, 10, 17, 18 carries 1 marks.
- Questions 3, 4, 11, 12, 19, 20 to 10 carries 2 marks.
- Questions 5 to 7, 13 to 15, 21 to 23 carries 3 marks.
- Questions 8, 16, 24 carries 5 marks.

SECTION-A CHEMISTRY

1. What is numerical value of one mole?
2. What is the name and valency of the element whose $Z=5$?
3. A solution contains 50 g of common salt and 400 g of water. Calculate the concentration in terms of mass percentage of the solution?
4. What will be the effect of change of pressure on the state of a matter?
5. write chemical formula of following
 - a) Copper nitrate
 - b) Calcium carbonate
 - c) Magnesium chloride
6. Compare the properties of electrons, protons and neutrons?
7. Explain the various laws of chemical combination?
8. a) What is evaporation? What are the various factors which affect it?
b) Why should we wear cotton clothes in summer?

SECTION-B PHYSICS

9. What is the nature of distance time graph for uniform motion of an object?
10. What is the unit of power?
11. An electric bulb of 100 W is used 20 hours per day. Calculate the units if energy consumed in a one week?
12. An object of mass 20 kgs is moving with uniform velocity of 6 m/s. what is kinetic energy possessed by the object?
13. What is relative density of a substance? Relative density of silver is 10.8. the density of water is 1000kg/m^3 . What is the density of silver in SI unit?
14. State various laws of motion?
15. State the universal law of gravitation? What is its importance?
16. a) What are waves and how are they classified. Give an example of each type.
b) Give 3 characteristics of wave motion

SECTION-C BIOLOGY

17. Where is apical meristem found?
18. What is cause of fog?
19. What do you mean by depletion of ozone layer? Is it harmful?
20. What is pasturage? How it is related to honey production?
21. What are fertilizers and manures? What is difference between them

22. Name three infectious diseases and how these are caused?
23. Draw a labeled diagram of neuron?
24. Explain the various divisions of vertebrae?