Prism
Colours of your Dreams

**PRISM WORLD**

**Std.: 9 (English)** **Science 1** **Marks: 20**

**Date:** **Time: 1 hour**

**Chapter: 4**

**Q.1 A) Choose the correct alternative and rewrite the sentence** **(1)**

Which of the statement or statements are true with respect to atomic size.

a. The atomic size depends on the number of electron orbits in the atom.
b. The greater the number of orbits the larger the size.
c. Atomic size of Potassium atom is bigger than atomic size of Sodium atom.
d. All of the above.

**B) Answer the following questions.** **(2)**

**1) Find co-related terms**

Salt : NaCl :: Water : .....

**2) Find the odd man out:**

**2)** Lead, Iron, Calcium, Copper

**Q.2 A) Give scientific reasons (Any one)** **(2)**

**1)** The element sodium is monovalent.

**2)** An atom of Magnesium (Mg) is smaller than an atom of Sodium (Na).

**B) Answer the following questions. (Any two)** **(4)**

**1)** Define Unified Atomic Mass.

**2) Chemical Equation.**

Write the steps in deducing the chemical formulae of the following compounds.
calcium oxide

**3)** Find the number of molecules in 90 gm water.

**Q.3 Answer the following questions. (Any two)** **(6)**

**1)** What is unified mass. Write another name of united mass, Its symbol and value in kilogram.

**2)** Deduce the number of molecules of the following compounds in the given quantities.
i. 90 g water.
ii. 8.8 g of carbon dioxide.
iii. 7.1 g chlorine:

**3)**

| Sr. No. | Element | Atomic number | Electronic configuration | Valency |
|---|---|---|---|---|
| i. | Helium | 2 | 2 | ..... |
| ii. | Nitrogen | 7 | ..... | 3 |
| iii. | Flourine | ..... | 2, 7 | ..... |

| | | | | |
|---|---|---|---|---|
| iv. | Magnesium | 12 | ..... | ..... |

**Q.4 Answer the following questions. (Any one)** **(5)**

**1)** M is a bivalent metal. Write down the steps to find the chemical formulae of its compound formed with the radical Sulphate and Phosphate.

**2)** How is the mass of an atom determined ?