Full Marks: 20   Class-VII   Time: 45 minutes

Attempt all questions

1.   **[1x3=3]**

 i.   What is the chemical formula of aluminium oxide?

 ii.   What is the atomicity of sulphur?

 iii.   Name an adsorbent which is used in paper chromatography?

2.   **[2x4=8]**

 i.   Define the valency of an element. Calculate the valency of nitrogen in N_2O_5.

 ii.   Write two characteristics of compound.

 iii.   Which separation technique will you apply for the separation of the following –
        a) Camphor from salt
        b) Oil from water.

 iv.   How is the atomic number and mass number related to the number of neutrons and protons inside an atom?

3.   **[3x3=9]**

 i.   What is an ion? Explain the types of ions with an example.

 ii.   Name the three fundamental particles present in an atom. Give one characteristic of each?

 iii.   Give one example for each of the following :
        a) solution of a gas in solid.
        b) solution of a solid in solid.
        c) solution of a liquid in solid.

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