2. STRUCTURE OF ATOMS (ix)

- 1. What was the first indication that atoms are indivisible?
- 2. What are canal rays? How it helped in discovery of proton?
- 3. Name the scientist who first proposes the structure of atoms give that structure.
- 4. List the limitations of first model of atoms structure.
- 5. What are particle scattering experiment. What was the conclusion of this experiment?
- 6. Explain main drawbacks of Rutherford's model of the atom.
- 7. Draw a sketch of Bohr's model of an atom with its shell. Distribute electrons of Na, Cl.
- 8. Who discovered Neutrons? What is its significance?
- 9. What do you understand by valency?
- 10. Write atomic number and atomic mass scientifically of C,Ca,Fe,Cu.
- 11. What do you understand by Isotopes? Write the isotopes of hydrogen.
- 12.Cl occurs in nature in two isotopic forms with mass 35u and 37u in ratio 3:1. What is it mass taken in general?
- 13. What are isobars? Give examples.
- 14. The average atomic mass of a sample of an element x is 16.2u. What are the percentage of isotopes $16/8 \times 18/8 \times 18/$
- 15.If Z = 3, what would be the valency of the element? Also name the element.