What is inside the atom?

- 1. What are the three subatomic particles? (AS1)
- 2. What were the three major observations Rutherford made in the gold foil experiment? (AS1)
- 3. Give the main postulates of Bohr's model of an atom. (AS1)
- 4. State the valencies of magnesium and sodium (AS1)
- 5. Compare the sub-atomic particles electron, proton and neutron.(AS1)
- 6. What are the limitations of J.J. Thomson's model of the atom?(AS1)
- 7. Define valency by taking examples of nitrogen and boron.(AS1)
- 8. What is the main difference among the isotopes of the same element?(AS1)
- 9. If Z = 5, what would be the valency of the element? (AS2)
- 10. Sketch Rutherford's atomic model. Why Rutherford's model of the atom is called the planetary model?(AS5)
- 11. CI has completely filled K, L & M shells. Explain it based on Bhor-Bury theory. (AS1)
- 12. Explain the efforts made by scientists to explain the structure of atom by developing various atomic models?(AS6)

- 1. Electron was invented by []
- a) Thomson b) Chadwick c) Goldstein d) Stoney
- 2. Proton was invented by []
- b) Thomson b) Chadwick c) Goldstein d) Stoney
- 3. Neutron was invented by []
- a) Thomson b) Chadwick c) Goldstein d) Stoney
- 4. α particles are made up of the following primary particles []
- a) 2 protons and 2 neutrons b) 2 Protons and 2 Electrons
- c) 2 Neutrons and 2 Positrons d) 2 Protons and 2 Neutrinos
- 5. Which model of atom is known as Planetary model []
- a) Thomson's model b) Rutherford's model
- c) Bohr's model d) Modern atomic model
- 6. Valency of Aluminium is []
- a) 1 b) 2 c) 3 d) 4
- 7. The gas which is stable without octet configuration is []
- a) Neon b) Argon c) Radon d) Helium
- 8. The sum of the number of protons and neutrons in an atom is known as its []
- a) Mass number b) Atomic number c) Valency d) Ion number
- 9. Deuterium and Tritium are the Isotopes of []
- a) Nitrogen b) Oxygen c) Hydrogen d) Helium
- 10. The electronic configuration of Sodium is []
- a) 2,8 b) 8,2,1 c) 2,1,8 d) 2,8,1