

CHEMISTRY - IX

Q.1- Write the balanced chemical equations of the following word equations.

- a) Iron + sulphuric acid \rightarrow ferrous sulphate + hydrogen
- b) Silver nitrate \rightarrow silver + nitrogen dioxide + oxygen
- c) Ammonia + oxygen \rightarrow nitric oxide + water
- d) Zinc sulphide + oxygen \rightarrow zinc oxide + sulphur dioxide
- e) Sulphur + nitric acid \rightarrow sulphuric acid + nitrogen dioxide + water

Q.2- Draw diagrams representing the atomic structures of the following :

- a) Sodium atom
- b) Chloride ion
- c) Carbon atom
- d) Oxide ion.

Q.3- Define the terms :

- a) Mass number
- b) Ion
- c) Cation
- d) Anion
- e) Element
- f) Orbit

Q.4- Complete the table

Atomic No.	Element	Electronic configuration	Select element of the same group
11	Sodium	(Ca/N/K).....
15	Phosphorus	(Al/N/C).....
16	Sulphur	(F/Cl/O).....
9	Fluorine	(Ca/Cl/K).....

Q.5- Give the formula and valency of :

- a) Aluminate
- b) Chromate
- c) Aluminium
- d) Cupric