

Q.1. Four answers are given for each question. Select the correct one.

i) The fundamental particles of an atom are:

- (a) Electron, positron, neutron (b) Electron, proton, neutron
(c) Electron, neutrino, proton (d) Electron, positron, meson

ii) Proton was discovered by:

- (a) Gold Stein (b) Chadwick
(c) Thomson (d) W. Crooks

iii) The colour of the glow inside the discharge tube depends upon:

- (a) Nature of discharge tube (b) Nature of the gas
(c) Nature of cathode (d) Nature of anode

iv) The mass of electron is almost equal to:

- (a) Hydrogen atom (b) Proton
(c) Neutron (d) Positron

v) How many times the second orbit of hydrogen atom is away from nucleus:

- (a) Four (b) Six
(c) Nine (d) Sixteen

vi) Which one of the following elements is **NOT** radioactive:

- (a) Uranium (b) Polonium
(c) Radium (d) Germanium

vii) The properties of elements are determined by:

- (a) Atomic mass (b) Mass number
(c) Atomic number (d) All of these

viii) When 6s orbital is complete, the entering electron goes into:

- (a) 7s (b) 6p
(c) 5d (d) 4f

ix) If n is equal to 4, then l is equal to:

- (a) 0 (b) 0, 1
(c) 0, 1, 2 (d) 0, 1, 2, 3

x) How many electrons an orbital can accommodate:

- (a) 14 (b) 10
(c) 6 (d) 2