Section-A

Multiple choice Questions (MCQ's)

Q.1: Choose the correct answer for each from the given options:

(i) 308.00 has significant zeros:
(a) 1 (b) 2 (c) 3 (d) 5

(ii) Empirical formula of glucose is:
(a) $C_6H_5O_3$ (b) $C_6H_{12}O$ (c) CH_2O (d) CHO

(iii) _____ occupies of 22.4 dm3 volume at S.T.P.
(a) 62 g of O_2 (b) Polymorphism (c) Allotropy (d) Pyramidal

(iv) Same element exists in nature in more than oen crystl form by vitrue of:
(a) Isomophism (b) Polymorphism (c) Allotropy (d) Pyramidal

(v) Shape of water molecule is:
(a) Linear (b) Bent (c) Pentagonal (d) Pyramidal

(vi) Zero degree celslus (O^oC) is also called:
(a) Standard temperature (b) Normal temperature
(c) Room temperature (d) Absoulute temperature

(vii) An orbital constains maximum number of electrons:
(a) 2 (b) 6 (c)10 (d) 14

(viii) Principal quantum number describes:
(a) Shape of orbital (b) Energy of orbital
(c) Orientation of orbital (d) Spin of electron

(ix) Bond energy of a molecule depends upon:
(a) Bond distance and bond polarity (b) Ionization energy
(c) Lattice energy (d) Kinetic energy

(x) Hydrated copper sulphate contains:
(a) 5 molecules of water (b) 2 molecules of water
(c) 3 molecules of water (d) None of these

(xi) The violet region of visible spectra has the shotest wavelength of about:
(a) 7000 A (b) 1000 A (c) 4000 A (d) 2000 A

(xii) All of the following properties of system are intensive , excpet:
(a) Mass (b) Viscosity (c) Boiling point (d) Refractive index

(xiii) The reaction : $H_2 \rightarrow 2H$ represents reaction of:
(a) Endothermic (b) Exothermic (c) Both (a) & (b)
(d) None of these

(xiv) Fro the reaction, $2NH_{3(g)} \quad N_{2(g)} + 3H_{2(g)}$:
(a) $K_p=K_c$ (b) $K_p > K_c$ (c) $K_p < K_c$ (d) All of these

(xv) pH of blood is :
(a) 5 (b) 7.3 (c) 8 (d) 9

(xvi) The colour of methyl orange in acide solution is:
(a) Orange (b) Red (c) Yellow (d) Purple

(xvii) The reaction having low value of activations energy are:
(a) Slow (b) Fast (c) Moderate (d) All of these