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FYBSc/Semester-I/Chemistry
Subject:- Chemistry-II
Sample Questions

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Multiple Choice Questions

- 1 For a first order reaction, the half life is equal to _____.
a) $0.693/k$ b) $k/0.693$ c) $1/ak$ d) $1/a$
- 2 Molar refractivity is expressed in unit of _____.
a) m^3mol^{-1} b) m^2mol^{-2} c) m^3mol^{-2} d) m^1mol^{-3}
- 3 The rise of liquid in a capillary tube is due to _____.
a) viscosity b) osmosis c) surface tension d) conductivity
- 4 Energy released when gaseous ions are brought from infinity to form a mole of solid substance at $0^\circ K$ is known as _____.
a) Ionization energy b) Dissociation c) Lattice energy d) Enthalpy energy
- 5 $\Psi_A + \Psi_B$ represent _____.
a) Bonding MO
b) Antibonding MO
c) Non Bonding MO
d) Atomic orbitals
- 6 Possible bond angle/s for PCl_5 _____.
a) 120° only b) 120° & 180° c) $90^\circ, 120^\circ$ & 180° d) 180°
- 7 In ammonia molecule _____ lone pair and _____ bond pairs present.
a) 1 and 3 b) 1 and 4 c) 2 and 2 d) 3 and 1
- 8 Which of the following alkenes is more stable alkene?
a) ethylene b) propylene c) 2-butene d) 2-methyl-2-butene
- 9 Ozonolysis of ethylene gives-----
a) acetaldehyde b) methanal c) acetone d) carbon dioxide
- 10 Acetylene is also called-----
a) ethyne b) methyne c) propyne d) butyne

