

Chemistry

Reg.No. :

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Time : 00:30:00 Hrs

Total Marks : 20

9 x 2 = 18

Answer All The Question

- 1) Electron affinity of fluorine is less than that of chlorine-why?
- 2) Mention the following in the Co-ordination Compound $[\text{Co}(\text{NH}_3)_4\text{Cl}_2]\text{NO}_2$
 - a) ligand
 - b) central metal ion
 - c) co-ordination number
 - d) nature of the complex
- 3) Complete the following nuclear reactions:
 - a) ${}^7\text{N}^{15}(\text{p},\alpha)$ _____
 - b) ${}^{11}\text{Na}^{23}(\text{n},\beta)$ _____
- 4) State Le-chatlier's Principle
- 5) Identify lyophilic and lyophobic colloids formed by the following with cold/hot water:
 - a) gelatin
 - b) sulphur
 - c) protein
 - d) starch
- 6) Define standard emf of a cell.
- 7) Arrange the following in increasing order of reactivity towards nucleophilic addition-HCHO, CH_3CHO and CH_3COCH_3
- 8) How a cyclic ester is obtained from the acid which is present in milk?
- 9) Write about phospholipids.
