

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	State EAN rule. Examine it with suitable example.	K4	CO1
	(OR)			
	11.b.	Discuss the postulates of valence bond theory.		
2	12.a.	Explain selection rules for electronic spectra of transition metal complexes.	K5	CO2
	(OR)			
	12.b.	How do you determine magnetic susceptibility by Guoy's method?		
3	13.a.	Explain the nucleophilic substitution in square planar complexes.	K6	CO3
	(OR)			
	13.b.	Elaborate the thermodynamic and kinetic stability of coordination complexes.		
4	14.a.	Describe on geometrical and optical isomerism in coordination complexes.	K4	CO4
	(OR)			
	14.b.	Discuss the trigonal prismatic and antiprismatic molecular geometry with suitable example.		
5	15.a.	Explain role of porphyrins in biological systems.	K5	CO5
	(OR)			
	15.b.	Discuss the role of manganese in photosynthesis.		

SECTION - C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain the detailed account on John Teller distortion.	K4	CO1
2	17	Elaborate the followings: i) Ferromagnetism ii) Anti-ferromagnetism.	K6	CO2
3	18	Discuss the theories of Trans effect.	K6	CO3
4	19	Justify the stereo isomers in six coordinate complexes with suitable examples.	K5	CO4
5	20	Explain the detailed study on Carboxypeptidase and Carbonic anhydrase .	K4	CO5

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END