			Sem I cheeseaus Da 2012	
			Sem I cheeseaus Do 2012 604-12. Ceeneral Chemithy F.4.BPhaem CN-287	76
			(2 Hours) [Total Marks : 4	
N.B.: (1) Question No. 1 is compulsory.(2) Attempt any four questions from remaining five questions.				
	1.	(a)	Give IUPAC nomenclature for the following:- (i) [(Co (NH ₃) ₅ Cl] Cl ₂ (ii) [Cr (NH ₃) ₆] ⁺³ (iii) K [Pt Cl ₃ (NH ₃)]	3
		(b)	Write the structures of the following:- (i) Tetra ammine aquamonobromo-cobalt (III) nitrate (ii) ferric hexa cyano ferrate (II)	2
		(c)	Define the following :- (i) Transition state (ii) Astringent (iii) Effective Atomic Number [EAN].	3
	2.		Discuss specific acid catalysis. Elaborate the concept of reactivity and selectivity for chemical reactions of halogenation of alkanes.	4
	3.		Classify types of antacids with example. Elaborate on combination antacids. Explain the effect of temperature in rate of reaction and what is its significance.	4
	4.		Write a note on initial rate kinetics. Discuss with example effect of weak field and strong field ligand on crystal field splitting in case of co-ordinate complexes.	4
	5.		Give property and use of following (any two):— (i) Hydrogen peroxide (ii) Talc (iii) Povidone iodine	4
		(b)	Discuss the effect of primary isotope.	4
	6.	(a)	Write short notes on (any two):- (i) Charge transfer complex (ii) Microscopic reversibility (iii) Mechanism of antimicrobial agents	6
		(b)	Predict the magnetic property and geometry of [Fe (H ₂ O) ₆] ⁺³	2