Model Question paper Chemical Kinetics - I 3

11th Standard

	Chemistry	Reg.No.:	
	I. Answer all the questions.		
	II. Use blue pen only.		
Tir	ne : 00:50:00 Hrs		Total Marks: 36
	Part - A		3 x 1 = 3
1)	mol.dm ⁻³ sec ⁻¹ is the unit of		
	(a) rate (b) rate constant (c) order (d) active mass		
2)	The elementary step with slow rate represents		
	(a) rate determining step (b) maximum rate step (c) third order rate (d) overall order		
3)	Molecularity is determined for		
	(a) an elementary reaction (b) an overall reaction (c) an over all stoichiometric reaction (d) a fraction order reaction		
	Part - B		3 x 2 = 6
4)	Define half life period.		
5)	Name the factors that affect the rate of reaction.		
6)	What is molecularity?		
	Part - C		4 x 3 = 12
7)	What is a rate determining step?		
8)	List the factors on which an order of the reaction depend.		
9)	Define the rate of a reaction.		
10) Write the rate law of $pA+qB o lC+mD$ reaction.		
	Part - D		3 x 5 = 15
11	Describe the factors on which the rate of a reaction depends.		
12	The time for half life of a first order reaction is 1 hr. what is the time taken for 87.5% completion of the reaction?		
13	The following results were obtained for the saponification of ethyl acetate using equal concentrations of ester and alkali.		
	Time 0 4.89 10.07 23.66 ∞		
	Acid in ml 47.65 38.92 32.62 22.58 11.84		
