

IN ASSOCIATION WITH PYRAMID CLASSES®

## XII CHEMISTRY TEST ON CHEMICAL KINETICS, SOLUTIONS, ALCOHOLS, SOLID STATES, HALOALKANES, CHEMISTRY IN EVERYDAY LIFE

TIME	: 2 HRS.		M	M.: 45	
1.	Illustrate the following	nical equation : Williamson's synthesis	3		
2.	What is F-center?			3	
3.	Give reason for the following :			⊦3=6	
	a. Compare acidity of alcohol and phenol b. Alcohols act as weak bases.				
4.	Draw a mechanism of	converting :	3 -	⊦3=6	
	a. Alchol into alkene	b. Alkene into alcohol			
5.	Explain :		3 + 2 -	⊦2=7	
	a. Antacids	<b>b.</b> Antiseptics	c. Disinfectant		
6.	The rate of a reaction becomes four times when the temperature changes from 300 K to 320 K. Calculate the energy of activation of the reaction, assuming that it does not change with temperature.				
	(R = 8.314 J K <sup>-1</sup> mol <sup>-1</sup>	').		5	
7.	Explain the term order of reaction. Derive the unit for first order rate constant.			5	
8.	What is DDT? Explain	its structure.		5	
9.	Calculate the freezing point of an aqueous solution containing 10.50 g of MgBr <sub>2</sub> in 200 g of water.			r.	
	(Molar Mass of MgB	$r_2 = 184 \text{ g}, \text{K}_{f} \text{ for water } 1$	.86 K kg mol⁻¹).	5	



## XII CHEMISTRY TEST ON CHEMICAL KINETICS, SOLUTIONS, ALCOHOLS, SOLID STATES, HALOALKANES, CHEMISTRY IN EVERYDAY LIFE

TIME	: 2 HRS.	M.M.: 4	5		
1.	Illustrate the following reaction by giving a chemical equation : Williamson's synthesis				
2.	What is F-center?		3		
3.	Give reason for the following :	3 + 3 = 0	6		
	<b>a.</b> Compare acidity of alcohol and phenol <b>b.</b>	Alcohols act as weak bases.			
4.	Draw a mechanism of converting :	3 + 3 = 0	6		
	a. Alchol into alkene b. Alkene into alcohol				
5.	Explain :	3 + 2 + 2 = 1	7		
	a. Antacids b. Antiseptics c	. Disinfectant			
6.	The rate of a reaction becomes four times when the temperature changes from 300 K to 320 K. Calculat the energy of activation of the reaction, assuming that it does not change with temperature.				
	(R = 8.314 J K <sup>-1</sup> mol <sup>-1</sup> ).		5		
7.	Explain the term order of reaction. Derive the unit for first order rate constant.				
8.	What is DDT? Explain its structure.				
9.	Calculate the freezing point of an aqueous solution containing 10.50 g of MgBr <sub>2</sub> in 200 g of water.				
	(Molar Mass of MgBr <sub>2</sub> = 184 g, $K_{f}$ for water 1.8	6 K kg mol⁻¹).	5		