

- (b) Attack by an electrophilic reagent on benzene ring
- (c) Formation of product
- (d) All of the mentioned

5.	A reaction in which organic molecules join together along with									
	elimination of water molecule or HCl is called									
	(a) A	Addition (b) Substitution (c) Condensation	(d) Evaporation							
6.	If ac	idified Potassium Dichromate(VI) (K ₂ Cr ₂ O ₇) acts as oxidizing		CO3- R						
	agen	t, color changes from								
	(a) C	Drange to red (b) Orange to green (c) Yellow to green	(d) yellow to red							
7.	The	reaction of carboxylic acids with alcohols catalysed by conc.	CO4- R							
	H_2SO_4 is called									
	(a) E	Dehydration (b) Saponification (c) Esterification	(d) Neutralization							
8.	The	reactive dyes applied to a cellulosic fiber, they form a		CO4- U						
	with hydroxyl group of the fiber.									
	(a) C	Covalent bond (b) Hydrogen bond (c) Ionic bond	(d) Adsorption							
9.	How many amino acids are synthesized by our bodies?									
	(a) 1	0 (b) 20 (c) 30	(d) 40							
10.	A lii	A link between amino acid molecules in a poly peptide chain by								
	condensation reaction is called									
	(a) Peptide bond (b) Polypeptide linkage (c) Diol linkage (d) Amine linkage									
	PART - B (5 x 2 = 10 Marks)									
11.	What is the role of catalyst in chemical reactions? CO1- R									
12.	Give a note on electrophilic reaction. CO2-									
13.	Wha	t is the role of N-Bromo succinimide?	C	CO3- U						
14.	Drav	w the structure of congo red dye and methyl orange.	CO4- R							
15.	Wha	С	CO5- R							
PART – C (5 x 16= 80Marks)										
16.	(a)	Explain the reaction mechanism of halogenation and nitration	on in CO1-U	(16)						
detail. Or										
	(b) (i) Give a brief note on oxidation and reduction reactions with its CO1-U (8 mechanism.									
	(ii) What is esterification? Elaborate its reaction mechanism with CO1-U (8) suitable example.									

17.	(a)	Briefly explain the mechanism of the following reactions.	CO2 -U	(8)							
		(i) Friedel craft reaction									
		(ii) Riemer Timenn reaction	CO2 -U	(8)							
		Or									
	(b)	(i) What is benzion condensation? Explain briefly the reaction mechanism involved in it.	CO2 -U	(8)							
		(ii) Discuss the addition of HBr on alkene in the presence of peroxide with suitable example.	CO2 -U	(8)							
18.	(a)	(i) What are the steps are involved in thermal halogination of alkane? Explain.	CO3-U	(10)							
		(ii) Explain the following reactions with suitable examples	CO3-U	(6)							
		(1) Addition polymerization									
		(2) Condensation polymerization									
		(3) Copolymerization									
	Or										
	(b)	Discuss briefly the estimation of following organic compounds,	CO3-U	(16)							
		(i) Aniline									
		(ii) Glucose									
19.	(a)	Explain the synthesis of dicarboylic acids and unsaturated acids with suitable examples.	CO4- U	(16)							
		Or									
	(b)	Discuss the synthesis, properties and uses of following dyes,	CO4- U	(16)							
		(i) Alizarin dye									
		(ii) Malachite green dye.									
20.	(a)	What are amino acids? Discuss briefly the various synthesis methods of amino acids.	CO5- U	(16)							
		Or									

(b)	(i)	Outline	briefly	the	peptide	linkage	and	colour	reaction	of	CO5- U	(8)
	pro	teins.										

(ii) What is denaturation of proteins? Discuss in brief.	CO5- U	(8)
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