2021

Full Marks - 75

Time - As in the Programme

The figures in the right hand margin indicate marks.

Answer ALL questions.

١.	Allswer all questions.
(i)	Write the structure of tartaric acid. [2
(ii)	What is optical isomerism, give suitable examples. [2
(iii)	Write few examples of SP ² hybridization agents. [2
(iv)	Write halogenation reaction of alkanes with suitable example. [2
(v)	Write the structure and uses of chloroform and iodoform. [2
(vi)	Give the preparation of benzyl alcohol. [2
(vii)	Write the structure and uses of saticylic acid and Dimethyl Phthalate. [2
	[Cont

(VIII)	what are aliphatic amines. Give suitable examples.	е
(ix)	Write the preparation of Acetic Acid.	2
(x)		2
	Explain crossed Aldol Condensation. [2	2
2.	Answer any 2 out of 3.	
(a)	Explain E ₁ and E ₂ reactions with suitable examples. [10]	
(b)	Write the general method of preparation o	2
	aliphatic amines. Explain the effect o	l f
1.	substituent on basicity of amines. [10	
(c)	Explain following reactions: [10	
(i)	Markownikoff's Orientation.	
(ii)	Free radical addition reaction.	
3.	Answer any 7 out of 9.	
(i).	Explain SN, and SN ₂ reaction with suitable example.	
(11)	Discuss the halogenation reactions of methane	
	in presence of UV light. [5	
(111)	Discuss the mechanism of cannizzaro reaction.	

-	[3]	
(iv)	Explain various qualitative tests for alcohols.	[5
(v)	Write brief note on:	[5
	(a) Perkin Condensation.	
	(b) Benzoin Condensation.	
(vi)	Explain tautomerism with suitable example.	[5
(vii)	Write the uses of following compounds:	[5
	(a) Oxalic acid	
	(b) Lactic acid.	
12	(c) Acetyl Salicylic acid.	
	(d) Ethyl chloride.	
	(e) Ethanolamine.	
	104.14	2 .

- (viii) Write any two methods of preparation of conjugated dienes. [5
- (ix) Mention the factors affecting E, and E, reactions. Explain ozonolysis. [5



II - S - B. Pharma -POC - I - BP - 202 T