C.U.SHAH UNIVERSITY Summer Examination-2018

Subject Name: Pharmaceutical Organic Chemistry I - Theory

	Subject	Code: BP202T	Branch: B.Pharm			
	Semeste	r: 2 Date : 25/04/2018	Time : 10:30 To 01:30	Marks : 75		
	Instructions:					
	(1)	(1) Use of Programmable calculator & any other electronic instrument is prohibited.				
	(2) Instructions written on main answer book are strictly to be obeyed.(3) Draw neat diagrams and figures (if necessary) at right places.					
	(4)	Assume suitable data if needed.				
Q-1		Attempt the following questions:			(20)	
	a)	Hybridization				
	b)	Polar bond				
	c)	Isomerism				
	d)	sp2 hybridization				
	e)	Geometric isomerism				
	f)	Anti Markownikoff's orientation				
	g)	Electrophilic addition				
	h)	E2 and E1 reactions of alkyl halide				
	i)	Aldol condensation				
	j)	Structure and uses of Amphetamine.				
Atte	mpt the f	ollowing questions:				
Q-2		Attempt any two of following :			(20)	
	А	Write a note on Markovnikov's rule	and Ozonolysis		10	
	B	Which are the functional derivatives of	of carboxylic acid? Give two meth	ods for	10	
		preparation of each. What are the appl	ications of these products?			
	С	Give structure, molecular formula an	nd uses of following		10	
		1. Formaldehyde				
		2. Hexamine				
		3. Vanilin,				
Q-3	i	Attempt any Seven of following :			(35)	
	Α	Write a note on Diels Alder reaction	s.		5	
	В	Explain sp3 hybridization with exam	ples		5	
	С	Differentiate between SN ₁ and SN ₂	reactions		5	
	D	How will you distinguish between p	rimary, secondary and tertiary al	cohol?	5	
	E	Write a note on Perkin condensation	1. 		5	
	F,	why aldehydes are more reactive the	an Ketones for nucleophilic addi	tion	5	
	C	reaction and add a note on Cannizza	of corboxylic acids		5	
	Ե	Explain actu catalyzeu esternication	or carboxyne actus		3	



- Give two methods of synthesis & reactions of carboxylic acid and its derivatives Give structure, molecular formula and uses of following: Η
- Ι

 - Citric acid,
 Methyl salicylate

