Seat No: _____

PARUL UNIVERSITY

FACULTY OF PHARMACY Pharm.D Supplementary Examination, November 2017

Enrollment No:

Pharm.D Supplementary Examination, November 2017		
	r: 1 ject Code: 08207104 ject Name: Pharmaceutical Organic Chemistry	Date: 15/11/2017 Time: 10:00 am to 1:00 pm Total Marks: 70
Instructions:		
	igures to the right indicate maximum marks.	
	lake suitable assumptions wherever necessary.	
-	Essay Type Questions. (any 2 out of 3) (15 Marks Each)	(30)
1.	Write Mechanism of aldol condensation, claisen condensation, and wittig react	
2.	Write brief note on Nuclophilic aliphatic substitution reaction, kinetics of secon	nd and first order
	reaction, mechanism and kinetics of SN_1 and SN_2 reactions.	
3.	Explain about 1, 2 elimination kinetics, E_2 and E_1 mechanism, elimination via c	carbocation, evidence
	for E_2 mechanism in brief.	
-	Short Essay Type Questions. (any 4 out of 5) (5 Marks Each)	(20)
1.	Write nomenclature of following structures:	
	соон он	
	CH ₃ H ₃ C	H₃C
	1. 2. $(1 3. 4. CH_3)$	5. NH ₂
2.	Discuss friedel craft alkylation in brief. 4	5
2. 3.	Write brief note on hyper conjugation.	
<i>3</i> . 4.	Explain: Effect of substituent groups and determination of orientation in Electro	ophilic aromatic
	substitution.	
5.	Write brief note on Free radical halogenations of alkenes.	
Q.3	Short Answers. (2 Marks Each)	(20)
1.	Explain: Mechanism and ionization of carboxylic acids.	
2.	Write Oxidation reduction reaction.	
3.	Write medicinal uses of Glyceryl trinitrate, and Urea.	
4.	Discuss about bimolecular displacement mechanisms in brief.	
5.	Write brief note on Polarity of bonds.	
6.	Write brief note about protic and aprotic solvents.	
7.	Write nomenclature of following structures:	
	сно	
	1 2 NO_2	
0		
8.	Discuss Markownikoff rule in brief.	
9.	Complete following reaction: OH	
	NaOH	
	\leftarrow	
	\sim	

phenol

10. Write Lowry Bronsted theory of acid and base.