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B.Pharm I Year I Semester (R15) Regular & Supplementary Examinations January 2017 PHARMACEUTICAL ORGANIC CHEMISTRY – I

Time: 3 hours

PART - A

Max. Marks: 70

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) Define the following terms: (i) Refractive index. (ii) Surface tension.
 - (b) Write a brief note on Hyperconjugation.
 - (c) Write a brief note on hybridization.
 - (d) Write the IUPAC rules for naming aldehydes.
 - (e) What is Saytzeff's rule?
 - (f) Write a note on polarity of carbonyl compounds.
 - (g) Write the mechanism of Cannizzaro reaction.
 - (h) Write a note on geometrical isomerism.
 - (i) Write a note on inter & intra molecular forces.
 - (j) Write a note on electrophilic addition reactions of alkenes.

PART - B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

2 Discuss the generation & stabilities of: (a) Carbocations. (b) Carbanions.

OR

3 Write in brief about the different physic-chemical properties of drug molecules in relation to biological activity.

UNIT - II

4 Write in brief about the free radical substitution reactions of alkanes & its selectivity & reactivity of halogens.

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5 What is isomerism? Explain in brief about the structural isomerism with examples.

UNIT - III)

6 Write the mechanism of Markovnikov's rule and peroxide effect with examples.

OR

7 Discuss the stability of Conjugated Dienes. Explain 1, 2 – addition reactions of Conjugated Dienes with examples.

UNIT - IV

8 What are SN_1 and SN_2 reactions? Explain the mechanism of SN_2 reaction & write the factors affecting SN_2 reaction.

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9		Write a brief note on:		
	(a)	Walden inversion.		
	(b)	Keto-enol tautomerism.		
	(C)	Elimination reaction.		
			UNIT - V	
10		Write a brief note on:		
	(a)	Benzoin condensation.		
	(b)	Perkins reaction.		
			OR	
11-	(a) (b)	Write a brief note on: Oppenauer oxidation. Aldol condensation.	www.FirstRanker.com	
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