

Code No. 1066

FACULTY

B. Pharmacy 2/4 I – Semester (Supplementary) Examination, November 2017 Subject: Pharmaceutical Oranic Chemistry I

Time: 3 hrs Max. Marks: 70

Note: Answer all questions. All questions carry equal marks.

1 a) Explain the followin terms	
Inductive effect 2) Mesomeric effect 3) Resonance with suitable examples	2+3+3
 b) How do y differentiate between enantiomers and diastereomers? Explain with suitable examples. 	6
OR	U
c) Discuss the followin with suitable examples.	
 1) Polarity 2 2) Solybility 3) Inter molecular forces d) Explain SP , SP and SP hybridization. 	2+2+2 8
2 a) Discuss the importance of Bayer's strain theory.	7
b) Write eneral methods of preparation of alkynes.	7
OR c) Explain the reactions of alkenes.	7
d) Discuss the free radical mechanism for the chlorination of methane.	7
3 a) Explain E and E elimination reactions with mechanism.	5
b) ive any three methods to synthesize alkyl halides.	9
OR (III)	-
c) Discuss the Williamson's synthesis of ethers.d) Explain Walden inversion and Ziesel's method.	7 7
4 a) Write synthetic applications of Diethyl Malonate and Ethyl aceto acetate.b) Discuss any three nucleoptillic addition reactions of carbonyl compnds with	7
mechanism.	7
OR	
c) Write any three methods of preparation of aldehydes and ketones.	9
d) ive the reasons for followin statements1) Bromo acetic acid is weaker than chloro acetic acid	2 1/2
2) Formic acid is stroner than acetic acid	2 1/2
5 a) How to separate mixtures of amines by different methods?	10
b) Write any two methods to prepare Nitro alkanes.	4
OR	
c) ive the synthetic applications of aryl diazotium salts.	8
d) Write any three important reactions of amines.	6
