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# FACULTY

#### Pharm D (6 – YDC) I – Year (Main) Examination, July 2017

### Subject: Pharmaceutical Organic Chemistry

Time: 3 Hours

Max.Marks: 70

# Note: Answer all questions from Part – A. Any Five questions from Part – B.

#### PART - A (10x2 = 20 Marks)

COK

- 1 Write IUPAC names of the following:
  - a)  $CH_3 CH CH COOH$   $| | | CH_3 CI$  $CH_2 - CH_2 - CH_2 - CH_2$
- 2 Explain different types of intermolecular forces.
- 3 Write any one preparation methods of cyclopentane.
- 4 Explain the stability of carbocations.
- 5 Write a note on hyper conjugation.
- 6 Write the uses of citric acid and saccharin sodium.
- 7 Why is acetylene acidic in nature?
- 8 Define electrophiles and nucleophiles and give examples.
- 9 What is optical isomerism?
- 10 What is resonance? Give examples.

# **PART – B (5x10 = 50 Marks)**

11 a) Explain the reaction and mechanism of Markownikoffi addition of alkene.	5
b) Explain Bayer's strain theory and give its limitations.	5
12 Explain the mechanism and stereochemistry of $SN_1$ and $SN_2$ reactions with examples.	10
<ul><li>13 a) Discuss the effect of halogen on electrophilic aromatic substitution of alkyl benzene.</li><li>b) Write the reaction and mechanism of Aldol condensation.</li></ul>	5 5
2	

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-2-	No. 4253
14 Explain the mechanism of $E_1$ and $E_2$ reactions with examples.	10
15 Write the preparation, assay and uses of following:	
a) Aspirin	3
b) Urea	3
c) Tartaric acid	4
<ul><li>16 Explain the reaction and mechanism of:</li><li>a) Reformat sky reaction</li><li>b) Fries Rearrangement</li></ul>	
17 Discuss the electrophilic substitution reactions of benzene with examples.	10
18 Write notes on:	
a) Polarity of molecules	3
b) Geometrical isomerism	3
c) Acidity of phenol	4