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FACULTY

Pharm D (6-YDC) I - Year (Main / Backlog) Examination, July 2018

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)

- 1 Write the IUPAC name of the following:
 - a) $CH_3 C CH_2 C OH$ $CH_3 Br$ b) $CH_3 CH CH CH_2 CH_3$
- 2 Give the structural formula of:
 - a) But-1-en-3-yne
 - b) 1-Bromo-2-chloro ethane
- 3 Define the term acidity and basicity.
- 4 Explain polarity of molecules with example.
- 5 Explain activating and deactivating groups with example.
- 6 Arrange the following in decreasing order of their reactivity.

 Benzene, Toluene and Nitrobenzene.
- 7 What is resonance? Give any two example.
- 8 Write any one method of preparation of lactic acid.
- 9 Explain hydrogen bonding with example.
- 10 Explain the acidity of phenol.

PART - B (5x10 = 50 Marks)

- 11 a) Explain in detail the mechanism, stereochemistry and rearrangement reaction of SN¹ with suitable example.
 b) Explain the mechanism of free radical reaction of methane.
- 12 a) Explain the nucleophilic addition reactions of aldehyde. 5
 - b) Describe the methods of preparation of acid derivatives.
- 13 Write short notes on the following:
 - a) Reimer Tieman's reaction 5
 - b) Williamson's synthesis 5

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14	a)	rite the mechanism of: Benzoin condensation Reformatsky reaction	5 5
15	Wr	rite the "test for purity" and uses for tartaric acid and glyceryl trinitrate.	10
16	,	Give 3 methods for the preparation of cyclopropane. Explain in detail about bimolecular displacement mechanism.	5 5
17	,	Explain the mechanism of sulphonation reaction of benzene. Explain in detail the effect of halogen on electrophilic aromatic substitution in alkyl benzene.	5 5
18	,	Write the preparation and assay method of vanillin and dimercaprol. Write the principle involved in the assay of aspirin.	5 5

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