

Code No. 6115

FACULTY

Pharm D (6 – YDC) I – Year (Main / Backlog) Examination, August 2016 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:
 - CH_3 |
 a) $CH_3 C = CH CH = CH_2$ O
 O
 |
 b) $CH_3 C CH_2 C CH_3$
- 2 Give the step involved in the conversion of aniline into para-nitro aniline.
- 3 Give the structure formula of
 - a) Methyl-1-penten-4-yne
 - b) 5-Hydroxy-3-hexenal
- 4 Comment on ethanol and dimethyl ether are isomer, but differ in the boiling point.
- 5 Briefly explain Bayer's strain theory.
- 6 Write the different between SN₁ and SN₂.
- 7 Explain Saytzeff rule.
- 8 Classify each of the following nucleophil or electrophil
 - 1) NH_2 2) H_{30}^{T}
- 3) CN
- 4) Cl₂
- 9 Predict the product
 - i) $CH_3 CH = CH_2 + HBr \xrightarrow{Peroxide}$?
 - ii) $CH_3 CH = CH_2 + HBr$ No-Peroxide
- 10 Explain Cannizzaro reaction.

PART - B (5x10 = 50 Marks)

- 11 Explain the nucleophillic substitution reaction with Mechanism.
- 12 Explain with mechanism:
 - i) Aldol-condensation
 - ii) Sadmeyer's reaction

10 10

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13 Define rearrangement reaction. Explain mechanism of following reaction.	10
i) Fries rearrangement reaction	
ii) Hoffman rearrangement reaction.	
14 Explain the mechanism of electrophillic substitution reaction taking a suitable example.	10
15 Write the short notes on:	10
i) Resonance concept	
ii) Acid-Base theory.	
16 Explain mechanism involved in following reaction:	10
i) Kolbe reaction	
ii) Michael addition	
17 a) Explain Friedel-Craft Alkylation reaction and write its drawback.	
b) Write a note on activating and deactivating O, P and M directing group.	

18 a) Explain diazo-coupling reaction with mechanism.

b) Write a note on elimination reaction.
