

Code No: R9104

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy I Year Examinations, May/June-2017

PHARMACEUTICAL ORGANIC CHEMISTRY - I

Time: 3 hours

Max.Marks:75

Answer any five questions
All questions carry equal marks

- 1.a) Write about the different electronic effects in organic molecules.
b) Write in details about the different types organic reactions and reagents. [7+8]
- 2.a) What is Bayer's Strain theory and Sachse-mohr theory? Explain with example.
b) Explain halogenations as a free radical substitution with mechanism. [8+7]
- 3.a) Write the Huckel's rule and explain the aromaticity with proper examples.
b) Write one electrophillic and reduction reaction of naphthalene with mechanism. [7+8]
- 4.a) What is SN^1 reaction? Write SN^1 reaction with detail mechanism.
b) Write the general methods for the preparation of aliphatic halogen compound. Write notes on Walden inversion. [7+8]
5. What is Reimer Tiemann reaction and Kolbe Schmidt reaction? Explain both the reaction with possible mechanism. [15]
- 6.a) Write the nucleophilic addition reactions of aldehyde. Explain the mechanism of it.
b) Explain with detail mechanism of aldol condensation and oppenauer reaction of carbonyl compounds. [5+10]
- 7.a) Write in detail about the reduction of carboxylic acid with detail mechanism.
b) Write the preparation and properties of malonic and acetoacetic acid ester. [7+8]
- 8.a) Explain the stability of carboxylate anion and give the synthesis of any two preparation methods for them.
b) Write about dicarboxylic acids with examples. [9+6]

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