

R16

Code No: 232AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Pharmacy I Year II Semester Examinations, June/July - 2018

PHARMACEUTICAL ORGANIC CHEMISTRY-II

Time: 3 hours

Max.Marks:75

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

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| 1.a) | Explain the aldol condensation reaction. | [2] |
| b) | Discuss the relative reactivities of carbonyl compounds. | [3] |
| c) | Write the physical properties of phenols. | [2] |
| d) | Explain stability of phenoxide ion. | [3] |
| e) | Write a note on dicarboxylic acids. | [2] |
| f) | Give the importance of acetacetic esters in organic synthesis. | [3] |
| g) | Discuss the nomenclature of nitro compounds. | [2] |
| h) | Give any one method of synthesis of nitriles. | [3] |
| i) | Write the relative reactivity of amines. | [2] |
| j) | Discuss the Acylation reactions of amines. | [3] |

PART - B

(50 Marks)

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|-----|--|------|
| 2. | Write the nucleophilic and reduction reactions of carbonyl compounds. | [10] |
| OR | | |
| 3. | Discuss the oppenauer oxidation reaction with mechanism and applications. | [10] |
| 4. | Explain the Reimer-tiemann reaction with mechanism. | [10] |
| OR | | |
| 5. | Write the general synthetic methods, stability and reactions of phenols. | [10] |
| 6. | Give the nomenclature, intermolecular association and decarboxylation of carboxylic acids. | [10] |
| OR | | |
| 7. | Write the hydrolysis and reduction reactions of esters and amides. | [10] |
| 8. | Mention two synthesis methods of isonitriles and their reactions. | [10] |
| OR | | |
| 9. | Explain the nomenclature and reductive reactions of aromatic nitro compounds. | [10] |
| OR | | |
| 10. | Write the synthetic applications of Grignard reagent with examples. | [10] |
| OR | | |
| 11. | What is Diazotisation and write the reactions of diazonium salts. | [10] |

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