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Total Number of Pages : 01

B.Pharm
PH.3.5

3rd Semester Back Examination 2019-20
PHARMA CHEMISTRY-III (ORGANISATIONAL CHEMISTRY-II)
BRANCH : B.Pharma
Time : 3 Hours
Max Marks : 70
Q.CODE : HB878

Answer Question No.1 which is compulsory and any FIVE from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions : (2 x 10)**
- a) Define Huckel's rule of aromaticity with example.
 - b) What is Walden inversion?
 - c) What is Chiral carbon?
 - d) Explain Metamerism with suitable example.
 - e) State the application of Lithium Aluminium Hydride.
 - f) Write Nucleophilic aromatic substitution reactions.
 - g) Derive Keto-Enol tautomerism.
 - h) What is Specific rotation?
 - i) Write the use of Grignard reagent.
 - j) Explain why Chloroacetic acid is stronger acid than acetic acid?
- Q2 a) Why phenol is acidic in nature? (5)**
b) Write the general methods of preparation of phenol. (5)
- Q3 a) Illustrate Friedel crafts reaction. (5)**
b) Electrophilic substitution reactions of Benzene. (5)
- Q4 a) Aldol condensation reaction. (5)**
b) Cannizzaro reaction (5)
- Q5 a) Explain Absolute and Relative configuration. (5)**
b) Write a short note on Enantiomerism, Diastereoisomerism. (5)
- Q6 Discuss the preparations & Reaction of acetoacetic esters and their synthetic applications. (10)**
- Q7 Write five general methods of preparation and reaction of Carboxylic acid. (10)**
- Q8 Write short Notes on any TWO : (5 x 2)**
- a) N-Bromo-succinimide
 - b) Diazomethane
 - c) Stereoselective reaction.