

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE  
End Semester Examination – Winter 2022

Date: 29/12/2022

Course : B. Pharmacy  
Subject Name : Pharmaceutical Organic Chemistry-II  
Max Marks : 75

Sem: III  
Subject Code: BP301T  
Duration : 3 Hr.

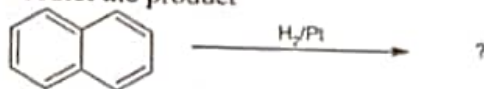
Instructions:

1. All questions are compulsory
2. Draw Structures/ diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q. 1. Objective Type Questions (Answer all the questions)

(10 x 2) = 20

- i) Give Structure and uses of DDT.
- ii) Define Acid Value and give its significance.
- iii) Write Structure and uses of Resorcinol.
- iv) Write down qualitative test for phenol.
- v) Write Huckel rule for aromaticity with suitable example.
- vi) Predict the product



- vii) Give any two reactions of benzoic acid.
- viii) Discuss structure and medicinal uses of Naphthalene.
- ix) Write any two methods for preparation of diphenylmethane.
- x) Write down the structure and give numbering to the derivatives of naphthalene and Anthracene

Q. 2. Long Answers (Answer 2 out of 3)

(2 x 10) = 20

- i) Define fats and oils with example and give difference between them. Explain Hydrolysis, Hydrogenation and Rancidity reactions of fats.
- ii) What are condensed polynuclear hydrocarbon. Write down Haworth synthesis of Anthracene and any two-chemical reaction of it. Draw the structure of derivatives of it along with uses.
- iii) What is Friedel craft reaction. Explain in detail Friedel Crafts alkylation and acylation. Give its limitations.

Q. 3. Short Answers (Answer 7 out of 9)

(7 x 5) = 35

- i) What are activating & deactivating groups?
- ii) Explain reaction and mechanism of nitration, halogenation and sulphonation in benzene.
- iii) Write down about effect of substituents on acidity of phenol. Give synthetic uses of aryl diazonium salt.
- iv) Give analytical and synthetic evidences in the derivation of structure of benzene.
- v) Explain electrophilic substitution in diphenylmethane. Give its uses.
- vi) Write Electrophilic substitution reaction of phenanthrene.
- vii) Discuss Baeyer's Strain theory.
- viii) Give reactions of cyclopropane and cyclobutane.
- ix) Explain the basicity of aromatic amine

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