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# DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

### End Semester Examination - Winter 2023

Date: 02/01/2024

Course

B. Pharmacy

Sem: III

Subject Name:

Pharmaceutical Organic Chemistry-II

Subject Code: BP301T

Max Marks : 7

Duration: 3Hr.

#### Instructions:

1. All questions are compulsory

https://pharmacyindia.co.in/

- 2. Draw diagrams / figures wherever necessary
- 3. Figures to right indicate full marks

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

 $(10 \times 2) = 20$ 

- i) Define saponification value. Give its significance.
- ii) Draw structure and give medicinal uses of naphthalene.
- iii) Write synthetic uses of aryl diazonium salts.
- iv) Predict the product:



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- v) Discuss limitations of Friedel crafts alkylation.
- vi) Draw structure and write uses of BHC.
- vii) Give reason: Though halogens are o,p-directors, they are ring deactivators.
- viii) Draw structures of derivatives of anthracene and phenanthrene.
- ix) Write Huckel's rule of aromaticity with suitable example.
- x) Write any two reactions of cyclopropane.
- Q. 2. Long Answers (Answer 2 out of 3)

 $(2 \times 10) = 20$ 

- i) What are phenols? Explain acidity of phenols. Write any three methods of preparation and three reactions of phenols.
- ii) Enlist analytical constants of oils and fats. Discuss in detail about iodine value and Reichert-Meissl value and give their significance.
- iii) Discuss analytical, synthetic and other evidences in the derivation of structure of benzene.

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

 $(7 \times 5) = 35$ 

- Discuss Baeyer's strain theory with its limitations.
- Explain hydrogenation and saponification reactions of fats and oils.
- Write ring substitution reactions of aromatic amines. Discuss effect of substituents on basicity of aromatic amines.
- iv) Draw resonance structures of phenol and aniline.
- v) Define aromatic electrophilic substitution reaction. Explain mechanism of nitration and sulphonation of benzene. https://pharmacyindia.co.in/
- vi) Write methods of synthesis and reactions of cycloalkanes.
- vii) Give reason. Naphthalene undergoes electrophilic substitution reactions preferentially at α position.
- Give any two methods of preparation and reactions of benzoic acid.
- ix) Explain structure, synthesis and medicinal uses of Diphenylmethane.

## ----END OF THE PAPER-----