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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (Sem.-3)

**PHARMACEUTICAL ORGANIC CHEMISTRY-II**

Subject Code : BP-301T

M.Code : 93323

Date of Examination : 12-01-23

Time : 3 Hrs.

Max. Marks : 75

**INSTRUCTIONS TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and students have to attempt any SEVEN questions.

**SECTION-A**

**1. Answer briefly :**

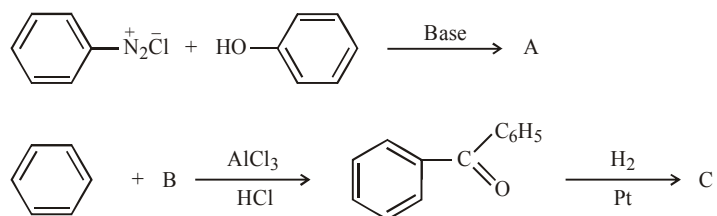
- a) Write the 'Huckel's rule of aromaticity'.
- b) Write the sulphonation reaction of benzene.
- c) Draw the structure of resorcinol and write its uses.
- d) Explain the basic character of amine with one suitable example.
- e) Define the saponification value.
- f) What do you understand by Rancidity of oils?
- g) Draw the chemical structure of Anthracene and write its medicinal uses.
- h) Write one method for the synthesis of Naphthalene.
- i) Explain the greater stability of cyclohexane over cyclopentane according to Bayer's Strain Theory.
- j) Define the 'Theory of Strainless Rings'.

## SECTION-B

2. Why electrophilic substitution reactions are favored on benzene? Describe the nitration and halogenation reactions of benzene.
3. Discuss the effect of substituents on acidity of benzoic acid and write any two reactions of benzoic acid.
4. What are fatty acids? Describe the hydrolysis and hydrogenation of fats/oils.

## SECTION-C

5. Draw the resonance phenomenon in benzene along with resonance hybrid.
6. Draw the structure of DDT and BHC and write their uses.
7. Describe the effect of substituents on acidity of Phenol with suitable example.
8. Describe the structural composition of Fats and oils with suitable example.
9. What is Baeyer's strain theory? Discuss the limitations of Baeyer's strain theory.
10. Define Reichert Meissl (RM) value and write its significance.
11. Write the synthesis of benzene diazonium chloride using diazotization reaction.
12. Identify A, B and C in the following reactions:



13. Describe the Friedel Craft's acylation reaction with suitable example.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**