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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (2017 Batch) (Sem.–3) PHARMACEUTICAL ORGANIC CHEMISTRY-II Subject Code : BP-301T Paper ID : [75105]

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) Give one synthetic evidence in support of structure of benzene.
- b) Draw the structure and give one synthetic application of benzene diazonium chloride.
- c) Why *p*-nitrophenol is a stronger acid than phenol?
- d) Why p-hydroxy benzoic acid is weaker than benzoic acid itself?
- e) What is oxidative rancidification of oil and fats?
- f) What happens when anthracene is treated with sodium and ethyl alcohol?
- g) Why aromatic amines are less basic than aliphatic amine?
- h) Explain why cyclobutane is more stable than cyclopropane.
- i) What is mixed acid?
- j) What happens when phenol is treated with neutral FeCl₃?



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SECTION-B

- 2. Discuss in detail various evidences to derive the structure of benzene.
- 3. Give synthesis of diazonium salt and describe synthetic uses of aryl diazonium salt.
- 4. Give detailed account of different analytical constants and their significance in the analysis of fats and oils.

SECTION-C

- 5. Explain mechanism of sulphonation in benzene. Comment on the same as electrophile in this reaction.
- 6. Discuss meta direction effects of-NO₂ group at nitrobenzene in electrophilic substitutions on its aromatic ring.
- 7. Compare the basicity of 4-nitro aniline with 4-methyl aniline.
- 8. Compare the stability of cyclobutane with cyclobexane using Bayer's strain theory.
- 9. Explain electrophilic substitution of Phenanthrene.
- 10. Explain opening of cyclopropane ring using Caulson and Moffitt's modification.
- 11. What is Reichert Meissi value? How is it calculated? Discuss its significance.
- 12. Discuss Sachse Mohr's theory to explain the concept of strainless ring.
- 13. Discuss electrophilic substitution of anthracene with one example.