

Roll No.

Total No. of Pages : 02

Total No. of Questions : 22

B.Pharma (2017 & Onward) (Sem.-3)
PHARMACEUTICAL ORGANIC CHEMISTRY-II
Subject Code : BP-301T
M.Code : 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

Answer briefly :

1. Give an analytical evidence in support of structure of benzene.
2. Draw structure and give important uses of cresol.
3. Why picric acid is a stronger acid than phenol?
4. Why p-nitrobenzoic acid is stronger acid than benzoic acid itself?
5. What is hydrolytic rancidification of oils?
6. What happens when anthracene is treated with bromine in CCl_4 ?
7. Give orbital picture of naphthalene.
8. Explain why cyclohexane is more stable than cyclopropane?
9. Briefly explain the role of AlCl_3 in Friedal craft's alkylation of benzene.
10. What happens when phenol is treated with concentrated HNO_3 ?

SECTION-B

11. Classify substituents on the basis of their directive effects in electrophilic substitution on benzene.
12. Explain the effect of different electron withdrawing and releasing groups on the basicity of aniline by citing suitable examples of each case.
13. Describe in detail various reactions of fats and oils.

SECTION-C

14. Discuss electrophilic substitution in nitrobenzene.
15. Compare the effect of -NH_2 substitution at various positions of phenol on its acidity.
16. Discuss the phenomenon of drying of oil?
17. Compare the stability of cyclopentane with cyclohexane using Bayer's strain theory.
18. Explain electrophilic substitution of naphthalene.
19. Describe Bayer's strain theory and give its limitation and correction.
20. What is rancidity of oil? Compare hydrolytic and oxidative rancidity.
21. What is aromaticity? Discuss Huckel rules for aromatic nature of a molecule.
22. Discuss important reaction of phenol involving benzene ring.

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.