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DEC-23-0070

BP-301 T (Pharmaceutical Organic Chemistry-II)

B.Pharm-3rd (PCI)

Time : 3 Hours

Max. Marks : 75

Note: ALL Questions from Section A (each carrying 2 marks); any Seven Questions from Section B (each carrying 5 marks) and any Two Questions from Section C (each carrying 10 marks).

SECTION-A

(Answer ALL Questions)

(Short Answer)

1. Define coupling reaction with significance. [02]
2. Differentiate between fat, oil & waxes. [02]
3. Differentiate between saturated and unsaturated fat. [02]
4. Discuss the uses of phenols. [02]
5. What is acid value? Give its significance. [02]
6. Why phenol is more acidic than alcohols? [02]
7. Write the reaction of diazotization. [02]
8. Write the structure and uses of phenanthrene. [02]
9. Write the structure of 1-nitro cyclohexene and 2-chloro benzamide. [02]
10. Write the structure of benzamide and aniline. [02]

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SECTION-B

(Answer any Seven Questions)

(Short note Answer)

11. Discuss Chemical properties of phenol. [05]
12. Discuss the orbital structure of benzene with hybridization. [05]
13. Discuss the principle, procedure and significance of RM value. [05]
14. Discuss the synthetic applications of diazonium salts. [05]
15. Explain the mechanism of Haworth process of anthracene. [05]
16. Explain the mechanism of rancidity of oils. [05]
17. Give a detail note on acidity of carboxylic acid. [05]
18. Give a note on Bayer Strain theory. [05]
19. Write preparation of cycloalkanes. [05]

SECTION-C

(Answer any Two Questions)

(Long Essay Type)

20. Discuss the confirmations of cyclohexane with their stability diagram. [10]
21. Explain the chemistry of diphenyl methane including its uses. [10]
22. Give a detailed note on chemistry of fat and oils. [10]