

[Total No. of Questions - 18] [Total No. of Printed Pages - 2]  
(2064)

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B. Pharmacy 2nd Semester Examination

Pharmacy Organic Chemistry-II (N.S.)

BP-121

Time : 3 Hours

Max. Marks : 70

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

- Note :** (i) Attempt two questions from Section-A.  
(ii) Attempt any eight questions from Section-B.  
(iii) All questions are compulsory in Section-C.

**SECTION - A**

1. What is optical activity and specific rotation & How it is measured? (10)
2. Give the R & S system for asymmetric molecule. (10)
3. Discuss the difference between  $SN_1$  &  $SN_2$  reaction mechanism. (10)

**SECTION - B**

4. Give classification and selected physicochemical properties of lipids. (5)
5. What is mutarotation, explain it with example. (5)
6. Write note on Addition reactions. (5)
7. Write the difference between properties of reducing and non-reducing sugars. (5)

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8. Write synthesis & properties of thiazole. (5)
9. Write note on N-Bromosuccinimide used as reagent in synthesis. (5)
10. Describe the resolution of racemic mixture. (5)
11. Define Protein & write the classification of proteins. (5)
12. Write the structure of purines & pyrimidines bases. (5)
13. Write note on  $\text{AlCl}_3$  and  $\text{FeCl}_3$  catalyst in synthesis. (5)

#### SECTION - C

14. What happens when glucose is treated with phenyl hydrazine. (2)
15. Define chirality with example. (2)
16. How will you distinguish between glycine and acetamide. (2)
17. Define enantiomers and diastereomers. (2)
18. Draw the structure of Indole cinnoline. (2)