

[Total No. of Questions - 18] [Total No. of Pages - 2]
(2066)

16357(J) J-16

B. Pharmacy 2nd Semester Examination

Pharmaceutical Organic Chemistry-II (NS)

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 any 2 questions from Section A. Each carries 10 marks.
(ii) Attempt any eight questions from Section B. Each carries 5 marks.
(iii) Attempt all questions of Section-C. Each carries 2 marks

SECTION - A

1. Explain mechanism of nucleophilic and electrophilic substitution reactions. (10)
2. Discuss optical activity and write a note on chiral reagents. (10)
3. Define lipid. Discuss their classification, physical properties and chemical reactions. (10)

SECTION - B

4. Discuss structure of proteins. (5)
5. Explain chemical reactions of glucose. (5)
6. Discuss chemical reactions of pyrrole. (5)

[P.T.O.]

2

16357

7. Write a note on electrocyclic reactions. (5)
8. Discuss structure and chemical reactions of nucleic acids. (5)
9. Discuss nomenclature and chemical reactions of Quinoline. (5)
10. Discuss synthesis and inter conversions of monosaccharides. (5)
11. Write a note on reactions involving stereoisomers. (5)
12. Discuss the mechanism of addition reactions. (5)
13. Discuss nomenclature and chemical reactions of pyrimidine. (5)

SECTION - C

14. Define isomerism. (2)
15. Explain chirality. (2)
16. Write a short note on new organic reagents used in drug synthesis. (2)
17. Explain mutarotation. (2)
18. Write a short note on cycloaddition reactions. (2)