

[Total No. of Questions - 18] [Total No. of Printed Pages - 2]
(2063)

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B. Pharmacy 2nd Semester Examination
Pharmaceutical (Organic Chemistry) 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 any two questions from Section-A.
(ii) Attempt any eight questions from Section-B.
(iii) All questions of Section-C in compulsory.

SECTION - A (10 marks each)

1. Discuss the comparison of elimination and substitution mechanism.
2. Write a note on cycloaddition reaction.
3. Explain the mechanism of ϵ_1, ϵ_2 & ϵ_1 CE..

SECTION - B (5 marks each)

4. Discuss the Analysis of Fats and oils.
5. Give the synthesis of monosaccharides.
6. Write the difference between "C" & "D" in stereochemistry.
7. Compare the aromatic properties of thiophene, Furan and Pyrrol.

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8. Discuss the neighbouring group effect.
9. Describe the stereoselective & stereospecific reaction.
10. Write the synthesis and properties of pyrimidine.
11. Write short note on Griess reagent as metal catalyst.
12. Describe the structure & general properties of protein.
13. What are orbital symmetry rules-explain.

SECTION - C (2 marks each)

14. Write the differentiating test between protein and carbohydrate.
15. How will you convert glucose into fructose.
16. Define zwitterion and isoelectric point.
17. Define conformation of cyclohexane.
18. Write difference between nucleotide and nucleosides.