

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2064)

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B. Pharmacy 6th Semester Examination

Chemistry of Natural Products

HBP-310

Time : 3 Hours

Max. Marks : 80

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 : Candidates are required to attempt five questions in all selecting one question from each of the section A, B, C and D of the question paper and all the subparts of question in Section-E.

SECTION - A

1. Write the stereoisomerism of citral and menthol. (16)
2. Write the chemical and spectral approaches of simple molecules of natural product. (16)

SECTION - B

3. Classify terpenes. Discuss the chemistry of carvone. (16)
4. Write the chemistry of camphoranic acid. (16)

SECTION - C

5. Write the sources of cardiac glycosides. Discuss the chemistry of digitoxin. (16)
6. Classify alkaloid. Write the chemistry and pharmacological activity of quinine. (16)

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SECTION - D

7. Classify flavonoid compound. Write the chemistry of quercetin. (16)
8. Discuss the chemistry of tetracycline. (16)

SECTION - E

9. (a) How could you prove that menthol is a monocyclic compound.
- (b) Streptomycin composed of three units. Name those three units.
- (c) What do you mean by zeisel determination?
- (d) What are the different degradation reaction used in alkaloids structural elucidation and how it is helpful?
- (e) Write two applications of the IR taking examples of Natural products.
- (f) Write the pharmacological activity of reserpine.
- (g) What happens when Atropine undergoes hydrolysis?
- (h) What happens when morphine in acetylation. (2×8=16)