

[Total No. of Questions - 15] [Total No. of Printed Pages - 2]
(2063)

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B. Pharmacy 2nd Semester Examination
Advanced in Chemistry of Natural Products
MP-222

Time : 3 Hours

Max. Marks : 90

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 : Attempt one question from section A, Three questions from Section B and Seven questions from Section C.

SECTION - A

1. How can you establish the position of hydroxyl groups, double bond, angular methyl group and side chain in the structure of cholesterol. (25)
2. Discuss spectral techniques for structure elucidation of morphine. Give its synthesis also. (25)

SECTION - B

3. Describe the method of isolation, classification and biological activity of alkaloids. (10)
4. Illustrate the chemistry of cardiac glycosides. (10)
5. Establish the structure of quercetin with synthesis. (10)
6. Write a note on artemisinin derivative antimalarial. (10)

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SECTION - C

7. Discuss the classification of glycosides. (5)
8. Describe synthesis of progesterone from diosgenin. (5)
9. Write short notes on antineoplastic agents. (5)
10. Discuss importance of marine natural products in drug discovery. (5)
11. Discuss various pharmaceuticals from *Swertia chirata*. (5)
12. Write a note on natural products for pest managements. (5)
13. What is carbohydrate derived small molecules libraries. (5)
14. Discuss the role of natural products in tuberculosis. (5)
15. Discuss prevention of schistosomiasis by the used of plant products. (5)