

[Total No. of Questions - 15] [Total No. of Printed Pages - 2]
(2064)

14827

M. Pharmacy 2nd Semester Examination
Advances 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. Discuss the classification, methods of isolation and chemistry of terpenoids with a note on their biological activity.
2. What are cardiac glycosides? Write a note on their chemistry including pharmaceutical importance. (25×1=25)

SECTION - B

3. Describe the classification and chemistry of flavonoids.
4. Discuss conversion of diosgenin in corpus luteum hormone.
5. Establish structure of gingerine.
6. Write a note on antineoplastic agents from plants. (10×3=30)

SECTION - C

7. Discuss the role of natural products in Dengue.
8. How can natural products be useful in leprosy?

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9. What are combinatorial libraries?
10. Discuss *Gymnema sylvestre* as a drug.
11. Write a note on new drugs from natural products lead.
12. Briefly discuss Cinchona alkaloids.
13. Explain isolation of quercetin from plants.
14. Discuss stereochemistry of cholesterol.
15. What are coumarins? Explain their biological activities.

(7×5=35)