



MEDICINAL CHEMISTRY - II (NATURAL PRODUCTS)

PAPER IV

(Revised Scheme 2)

Q.P. CODE : 9234

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

1. Discuss the general methods for the isolation of alkaloids. Explain Hoffmann's exhaustive methylation method and its importance in structural elucidation of alkaloids. Elucidate the structure of Reserpine.
2. a) Define glycosides. Classify cardiac glycosides with relevant examples.
b) Discuss the SAR of cardiac glycosides.
c) Write a note on the sugar moieties attached to cardiac glycosides.
3. a) Give the degrading and spectroscopic evidence to establish the structure of vincristine.
b) Elucidate the structure of cholesterol.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Discuss antifungal antibiotics.
5. Add a note on Isoprene rule and special Isoprene rule.
6. Chemistry of hormone vasopressin and its pharmaceutical importance
7. Explain the SAR comparing Digoxin and Ouabain.
8. Explain the applications of HPLC and GLC with special reference to plant constituents.
9. Outline the synthesis of Cortisone.

SHORT NOTES

2 X 5 = 10 Marks

10. Anti parasitic compounds from purines and pyrimidines
11. Explain the chemistry and importance of any two anti diabetic crude drugs.

* * * * *