

# Rajiv Gandhiw Mniversity of Health Sciences First Year M.Pharm Degree Examination - October 2010

[Time: 3 Hours] [Max. Marks: 100]

## **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. Answer all questions

### LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- Explain the structural elucidation of Reserpine based on chemical degradation, synthesis and spectral data
- 2. a) Write a note on antipseudomonal pencillins and Cephalosporins
  - b) Write the structures and uses of clavulanic acid analogs and Carbapenams
- 3. a) Write the structures, mechanism of action and therapeutic importance of purine and pyrimidine related antineoplastic agents
  - b) Elucidate the structures of vincristine and Vinblastine based on chemical degradation and Spectral data

#### **SHORT ESSAY (Answer any FIVE)**

5 X 10 = 50 Marks

- 4. Write a note on antifertility agents
- 5. Write briefly the chemistry of Insulin. List out the various preparations of Insulin
- 6. Write the active constituents with their chemistry and importance of any two antidiabetic crude drugs
- 7. Discuss the structural elucidation of EMETINE
- 8. Discuss the chemistry of Cardiac glycosides
- 9. Explain the SAR of adrenal cortex hormones

SHORT NOTES 2 X 5 = 10 Marks

- 10. Purine and pyrimidine related antifungal agents
- 11. Chemistry of amidopenicillins

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