

**Rajiv Gandhi University of Health Sciences**  
**First Year M. Pharm Degree Examination – May 2012**

[Time: 3 Hours]

[Max. Marks: 100]

**MEDICINAL CHEMISTRY - II (NATURAL PRODUCTS)**

**PAPER IV**

**(RS 2 & RS 3)**

**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**

1. Discuss the chemical degradation, synthesis and spectral data of vincristine
2. a) Write the chemistry of female sex hormones and their role  
b) Write a note on third generation cephalosporins
3. a) Discuss in detail amido penicillins giving its clinical significances  
b) Write a note on human insulin

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Write the mechanism of action of alkylating agents
5. Explain monobactams and clavulanic acid analogues as antibiotics
6. Explain the chemistry and SAR of insulin
7. Explain Antiparasitic purines
8. Explain chemical degradation of cardiac glycosides
9. Discuss the chemistry of adrenal cortex hormones

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Explain the active constituents and uses of Swertia chirata
11. Write a note on Allopurinol

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