

**Rajiv Gandhi University of Health Sciences**  
**First Year M.Pharm Degree Examination – Nov 2011**

[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. a) Elucidate the structure of papavarine.  
b) How will you identify morphine?
2. a) Classify oestrogenic hormones with suitable examples.  
b) Write the chemistry and development of antifertility agents
3. a) Classify cardiac glycosides with suitable examples.  
b) Discuss the SAR of cardiac glycosides.

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Give a brief chemistry of emetine.
5. Classify antibiotics. What are the degradation products of penicillin.
6. Explain the role of steroids in various diseases.
7. Give a brief chemistry of cephalosporin's.
8. Discuss the role of Swertia chirata, Trogonella foenum-graeceum in diabetic therapy.
9. Briefly discuss vincristine in the cancer therapy.

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Differences between cardenolides and bufadienolides.
11. Carbapenams and Monobactams.

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