

Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination – May 2013

[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. What are the chief alkaloids of opium. Discuss the various structure elucidation morphine alkaloids.
2. Give the analytical and degradative evidence in support of steroids structure and related chemistry.
3. What are antibiotics? Discuss in detail the chemistry of beta-lactam anti-biotics. Write the structure of two each semi-synthetic penicillin and cephalosporins.

SHORT ESSAY (Answer any FIVE)**5 X 10 = 50 Marks**

4. Write a note on crude drugs use in anti diabetic therapy
5. Explain the metabolism of purines and pyrimidines
6. Write notes on Isoprene rules and special.
7. SAR of cardiac glycosides.
8. Explain briefly the chemistry reserpine.
9. Explain how O-methyl groups and N-methyl groups are estimated in natural products

SHORT NOTES**2 X 5 = 10 Marks**

10. Xanthine oxidase and its importance
11. Anti – parasitic agents.

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