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Rajiv Gandhi University of Health Sciences, Karnataka

First Year M. Pharm Degree Examination – Oct/Nov 2014

Time: Three Hours Max. Marks: 100 Marks

MEDICINAL CHEMISTRY-II (Natural Products) (Revised Scheme 4)

Q.P. CODE: 9348

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 20 = 40 Marks

- a) Prove the structure of papaverine based on its chemical degradation and synthesis.
 - b) Describe the chemistry and SAR of penicillins along with any one synthesis. (12
- a) Describe the chemistry, mechanism of action and classification of steroidal hormones.
 Add a note on carotenoids and their therapeutic importance
 - b) Give proof for the structure of Morphine.

(12+8)

3 What are antibiotics? Describe how the β lactamase stable cephalosporins were developed. Add a note on Clavulanic acid analogs.

SHORT ESSAYS (Answer any FIVE)

5 x 10 = 50 Marks

- Elucidate the structure of Reserpine.
- 5. Illustrate the metabolism of Purines and Pyrimidines.
- 6. Illustrate the various reactions possible by microbial biotransformations.
- Elucidate the structure of emetine.
- 8. Discuss the Purine and Pyrimidine based antineoplastic and antiparasitic agents.
- 9. Provide evidence for the structure of Vit C.

SHORT NOTES 2 x 5 = 10 Marks

- Discuss in detail the structure of vincristine and vinblastine.
- Describe the structural features and development of amido penicillins.

