



Rajiv Gandhi University of Health Sciences, Karnataka

First Year M. Pharm Degree Examination – NOV 2016

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

1. a) Describe in detail the theoretical and practical aspects of microbial conversions.
b) Enumerate the different reactions possible by microbial conversions. (10+10)
2. a) Describe the significance of structural features, mechanism of action and classification of
a) Cephalosporins b) Other β lactam antibiotics.
b) Show how the structure of emetine has been arrived at. (10+10)
3. a) Describe the physiological role of sex hormones. Write their structures. Describe the SAR and development of anabolic agents for treatment of infertility.
b) Classify adrenal cortex hormones; give their therapeutic role. Discuss the structural modifications done to obtain useful medicinal agents. (12+8)

SHORT ESSAYS (Answer any FIVE)

5 x 10 = 50 Marks

4. Depict the metabolism of Purines and Pyrimidines.
5. Establish the structure of Morphine.
6. Discuss the chemistry of vitamin B1 with suitable illustrations.
7. Describe the chemistry and development of β -lactamase stable cephalosporins.
8. Describe the chemistry of carotenoids and discuss the constitution of Vitamin A.
9. Elucidate the structure of Reserpine.

SHORT NOTES

2 x 5 = 10 Marks

10. Describe the chemistry and MOA of antiparasitic Purine and Pyrimidine related compounds.
11. Discuss the biosynthesis and structure of Vitamin D.
