

Rajiv Gandhi University of Health Sciences, Karnataka

First Year M. Pharm Degree Examination – NOVEMBER 2015

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. Prove the structure of Vit B2 based on its chemical degradation and synthesis.
2. Describe in detail the theoretical and practical aspects governing the microbial transformations. Illustrate the different transformations possible by microbes with relevant examples.
3. Classify adrenal cortex hormones; give their therapeutic role. Discuss the structural modifications done to obtain useful medicinal agents. Add a note on carotenoids and their therapeutic importance.

SHORT ESSAYS (Answer any FIVE)**5 x 10 = 50 Marks**

4. Elucidate the structure of emetine.
5. Show how the structure of Vit E has been arrived at.
6. Discuss in detail the chemistry of Nocardicins and Monobactams.
7. Elucidate the structure of reserpine.
8. Give the metabolism of Purine and Pyrimidines. Add a note on the role of allopurinol & Xanthine oxidase.
9. Describe the chemistry and the MOA of Purine and Pyrimidine related antifungal agents.

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

10. Add a note on antipseudomonal penicillins and cephalosporins.
11. Describe the chemistry of Vitamin C.
