

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination – JAN-2019

Time: Three Hours**Max. Marks: 80 Marks**

MEDICINAL CHEMISTRY – II (OS & RS)

Q.P. CODE: 1873

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

LONG ESSAYS (Answer any Two)**2 x 10 = 20 Marks**

1. Elucidate the structure of Ephedrine.
2. What are the terpenes? Classify them with examples. Give one structure from each class. Discuss the constitution of Menthol.
3. Define and classify alkaloids. Give an account on general methods of extraction of alkaloids.

SHORT ESSAYS (Answer any Eight)**8 x 5 = 40 Marks**

4. What are bile acids? Discuss their chemistry.
5. Write the synthesis of testosterone.
6. Give the pharmaceutical applications of Cellulose.
7. Medicinal uses of nonsteroidal estrogenic compounds.
8. Give the chemistry & synthesis of uric acid.
9. Outline the synthesis of Papaverine.
10. Discuss the interrelationship between estrone, estradiol, estriol.
11. Write a note on SAR of Prednisone.
12. Explain the constitution & synthesis of Riboflavin.
13. Describe the chemistry & biological importance of thyroxine.

SHORT ANSWERS**10 x 2 = 20 Marks**

14. Give the hydrolytic products of salicin.
15. Write the structure & uses of Sarmenoggenin.
16. Constitution of geraniol.
17. Write any two tests for sapogenins.
18. Give biological importance of prostaglandins.
19. Name aglycone and glycone part of strophanthin & squill.
20. What are proteins? Give any one test for proteins.
21. Write any one synthetic route for benzesterol.
22. Discuss the chemical nature of cortisone.
23. Give the structure & uses of streptobiose.
