



Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination – NOVEMBER 2015

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. What are Hormones? Discuss the skeletal constitution, synthesis & use of Oestrone and Oestriol.
2. Describe the source, occurrence, constituents and synthesis of Vitamin-A.
3. Define enzymes. Give their detailed classification. Write the application of enzymes in industry and pharmacy.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Give the synthesis & medicinal uses of vitamin-D.
5. Write the structure & uses of following compounds.
a) Ephedrine b) Thiamine c) Thymol d) Caffeine e) Stilbesterol.
6. What are saponins? Give the identification tests for saponins.
7. Discuss the stereochemistry & biological importance of carbohydrates.
8. Write the structure & interrelationship of limonene, dipentene and cineole.
9. Add a note on chemistry of cholesterol.
10. Outline the synthesis of uric acid.
11. What are androgens? Give the synthesis testosterone.
12. Write the synthesis of ionones. Add a note on their applications.
13. Write a note on chemical nature and reactions of proteins.

SHORT ANSWERS

10 x 2 = 20 Marks

14. How do you convert α -terpeneol to terpene hydrate?
15. Explain Murexide test.
16. Give the structure & uses of diosgenin & hecogenin.
17. Explain the effect of pH & temperature on enzyme activity.
18. Write the constitution of geraniol.
19. What are deoxy sugars? Give examples.
20. Chemical nature of fats, oils and waxes.
21. Classify vitamins with suitable examples.
22. Give the source and uses of squill.
23. Outline the preparations of ascorbic acid.

