

QP CODE:303008

Reg.No.....

Third B.Pharm (Ayurveda) Degree Examinations October 2017
Chemistry of Natural products

Time : 3 Hours

Total Marks:100

- **Answer all questions**

Essays:

(2x10=20)

1. Discuss the structure of glucose. Explain how will you determine the configuration of glucose
2. Explain the structural elucidation of atropine

Short notes:

(10x5=50)

3. Define and classify carbohydrates. Discuss the pharmaceutical importance of cyclodextrins
4. Hofmann's exhaustive methylation
5. Chemistry and biological importance of thyroxine
6. Classify terpenes. Give constitutions of geraniol and camphor
7. Outline the synthesis of testosterone
8. The structural activity relationship of synthetic corticosteroids
9. Outline the synthesis of β ionone
10. Explain the constitution of caffeine
11. Constitution of vitamin D
12. Synthesis of cortisone

Answer briefly:

(10x3=30)

13. Constitution of menthol
14. Outline the synthesis of vitamin A
15. Cellulose derivatives
16. Nucleoproteins and their biological importance
17. Structural features of vasopressin
18. Inter relationship between caffeine, theophylline and theobromine
19. Structure and uses of sapogenin
20. Chemistry of lanosterol
21. Pharmaceutical application of hydroxy propyl methyl cellulose
22. Deoxy sugars and their biological importance.
