

Third Year B.Pharm(Ayurveda) Degree Supplementary Examinations,

April 2016

Chemistry of Natural products

Time : 3 Hours

Total Marks:100

- **Answer all questions**

Essays:

(2x10=20)

1. Discuss the constitution of atropine with its synthesis.
2. Explain the configuration of glucose on the basis of Fisher proof.

Short notes:

(10x5=50)

3. Classify nucleic acid with examples.
4. What are cardiac glycosides. Explain the chemistry of digitalis purpurea.
5. Explain the synthesis of vitamin A.
6. Structure and any two synthesis of progesterone.
7. Chemistry and biological importance of insulin.
8. Explain any two methods involved in the determination of N-methyl group present in alkaloids.
9. Explain cellulose derivatives.
10. Classify vitamins with suitable examples and structure.
11. Explain the irradiation products of ergosterol.
12. What are prostaglandins, explain it on the basis of suitable structures.

Answer briefly:

(10x3=30)

13. Synthesis of caffeine.
14. Purine and pyrimidine bases.
15. Define terpenoids. What is isoprene and special isoprene rules.
16. What are the chemical tests for alkaloids.
17. Constitution of menthol.
18. Explain the chemistry of stilbestrol.
19. Chemistry of bufanolides with examples.
20. Synthesis of thiamine.
21. Define and classify hormones with example.
22. Name any three synthetic steroids used as oral contraceptives and mention their structures.
