

Third Year B.Pharm(Ayurveda) Degree Examinations, October 2015

Chemistry of Natural products

Time : 3 Hours

Total Marks:100

- **Answer all questions**

Essays:

(2x10=20)

1. Explain the constitution of thiamine chloride hydrochloride with synthesis.
2. What are proteins and classify them with examples. Mention the biological importance and color reactions of proteins.

Short notes:

(10x5=50)

3. Structural formula and uses of ephedrine and ascorbic acid.
4. Outline the synthesis and uses of camphor.
5. General properties of carotenoids.
6. Discuss the chemistry of uric acid.
7. Chemical tests for alkaloids.
8. Define hormones. Classify them with examples.
9. General reactions of carbohydrates.
10. Chemical nature and identification test for saponial.
11. Outline the synthesis of stilbosterol.
12. List the uses and general properties of glycosides.

Answer briefly:

(10x3=30)

13. Source and uses of vasopressin.
14. Haffman's exhaustive methylation.
15. Isoprene and special isoprene rule.
16. Cellulose derivatives.
17. Structure and uses of riboflavin and vitamin A.
18. Bile salts.
19. Vitamin deficiencies.
20. Structure and uses of insulin.
21. Relationship between estrone and estradiol.
22. Explain any one method to find out the number of N-methyl group in alkaloids.
