

**Third Professional B.Pharm (Ayurveda) Degree Supplementary
Examinations November 2021
Chemistry of Natural products**

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*

Essays:**(2x10=20)**

1. Outline the synthesis of vitamin A
2. Discuss in detail the chemistry of amylose amylopectin and cyclodextrin

Short notes:**(10x5=50)**

3. Discuss in detail the different levels of protein structure.
4. Structural features of Insulin
5. Explain the different methods of extraction of terpenoids.
6. Outline the synthesis of cortisone from sapogenin
7. Explain the stereochemistry of atropine
8. Discuss the chemistry of cholesterol.
9. Explain anabolic steroids.
10. Explain the Inter – relationship between Caffeine, Theophylline and Theobromine.
11. Outline the synthesis of stilboesterol and chlorotrianisene
12. In relation to the structural elucidation of alkaloids explain Hofmann's exhaustive methylation.

Answer briefly:**(10x3=30)**

13. How will we identify the presence of caffeine.
14. Explain the source of camphor, menthol and cineole.
15. Classify the enzymes.
16. Outline the synthesis of Ascorbic acid.
17. Mention three uses of Dexamethasone.
18. Mention the structural features of Oxytocin.
19. List three tests for identifying alkaloids.
20. What are deoxysugars. Give two examples.
21. Discuss the chemistry of the Bile salts.
22. Mutarotation of Glucose
