

**QP CODE: 303008**

**Reg. No.....**

**Third Professional B. Pharm (Ayurveda) Degree Regular/Supplementary  
Examinations April 2022  
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. Discuss the constitution and synthesis of ascorbic acid.
2. Explain the skeletal structure of important corticosteroids

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

3. Synthesis of uric acid.
4. What are cardiac glycosides. Explain the chemistry of digitalis lanata.
5. Explain the conversion of beta-carotene.
6. Structure of Limonene.
7. Classification of Terpenes in brief.
8. Biological importance of prostaglandins.
9. General method of extraction of total alkaloids in brief
10. Classify vitamins with suitable examples and structure.
11. Synthesis of Benzestrol.
12. Explain cellulose derivatives.

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

13. Activity of dexamethasone
14. Identification tests for sugars
15. Uses of diosgenin
16. What are the chemical test for glycosides
17. Synthesis of thiamine
18. Explain the enzymatic activity in industrial applications.
19. Properties of proteins
20. Define terpenoids. What is isoprene and special isoprene rules.
21. Classification of enzymes
22. Constitution of menthol

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