

QP CODE: 303008

Reg. No.....

**Third Professional B. Pharm (Ayurveda) Degree Regular/Supplementary
Examinations March 2026**

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. Explain the constitution and synthesis of atropine
2. Define and classify terpenes. Describe the general methods of synthesis of camphor

Short notes:

(10x5=50)

3. Name various vitamin D's and their pro-vitamins
4. Chemistry of cholesterol
5. Describe the structure and synthesis of uric acid
6. Explain any two methods involved in the determination of the N-methyl group present in alkaloids
7. Explain the inter-relationship between estrone, estradiol and estriol
8. Explain the constitution of Riboflavin
9. Synthesis of Cortisone
10. Explain α -helices and β -sheets in protein structure
11. Synthesis of amygdalin
12. General classification of carbohydrates

Answer briefly:

(10x3=30)

13. Define and classify hormones with examples
14. Mention uses of caffeine and theophylline
15. Progesterone derivatives as oral contraceptives
16. Biological origin and physiological role of estrogens
17. Nucleotides and Nucleosides
18. Osazone test
19. Source of digoxin
20. Isoprene and special isoprene rule
21. Chemistry of lanosterol
22. Murexide test
