

QP CODE: 303008

Reg. No.....

**Third Professional B. Pharm (Ayurveda) Degree Regular/Supplementary
Examinations March 2023**

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. Structural elucidation and synthesis of ephedrine.
2. Classify terpenoids with special reference to number of isoprene units present. Mention the structures to each class.

Short notes:

(10x5=50)

3. Structural formula, uses and synthesis of testosterone.
4. Structural features and tests for steroids.
5. General classification of carbohydrates.
6. Structural formula and uses of betamethazone and ergosterol.
7. Synthesis of vitamin D.
8. Classify nucleic acid with examples.
9. Explain methods involved in the determination of N-methyl group present in alkaloids.
10. What are prostaglandins, explain it on the basis of suitable structures
11. What are cardenolides and bufadienolides. Mention the structure of each class.
12. Discuss the stereochemistry of atropine

Answer briefly:

(10x3=30)

13. Structure and uses of diosgenine.
14. Classify proteins with suitable example.
15. Explain biological importance of oxytocin.
16. Colour reactions of Protein.
17. Deoxy sugars and their biological importance.
18. Outline the synthesis of α -ionone.
19. Define alkaloid and classify them.
20. Cellulose derivatives
21. What are xanthenes
22. Define and classify enzyme with suitable examples.
