

QP CODE: 303008

Reg. No.....

**Third Professional B. Pharm (Ayurveda) Degree Supplementary
Examinations September 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. Describe about general methods of structural determination and add a note on chemical tests for alkaloids.
2. Explain the structure elucidation of any one of tropane alkaloids.

Short notes:

(10x5=50)

3. Structural formula, uses and synthesis of progesterone.
4. Classify vitamins and chemical nature of ascorbic acid.
5. Industrial applications of enzymes.
6. Discuss the constitution of riboflavin.
7. Pharmaceutical importance of carbohydrates.
8. What is mutarotation and mention the cyclic structure of glucose.
9. Synthesis of Benzestrol.
10. Explain cellulose derivatives.
11. Discuss the structure activity relationship of corticosteroid analogues.
12. Define, classify terpenoids and explain about isoprene rule.

Answer briefly:

(10x3=30)

13. Importance of glycone part with their SAR.
14. The physiological role of vitamin D.
15. Medicinal importance of theobromine.
16. Classify peptides.
17. Mention uses of caffeine and theophylline.
18. Name any three synthetic steroids used as oral contraceptives and mention its structures.
19. Chemistry of lanosterol.
20. Application of hydroxy propyl methyl cellulose.
21. Synthesis of cortisone.
22. Chemistry of amylase.
