

QP CODE: 303008

Reg. No.....

**Third Professional B. Pharm (Ayurveda) Degree Supplementary
Examinations August 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. Discuss the constitution and synthesis of thiamine.
2. What are water soluble vitamins. Give examples with structure. Discuss the synthesis of any one vitamin.

Short notes:

(10x5=50)

3. General methods employed for the determination of structure of alkaloids.
4. General identification test for carbohydrates.
5. Discuss the inter-relationship between Caffeine, Theophylline and Theobromine
6. Chemistry of thyroxine.
7. Biological importance of insulin and prostaglandins.
8. Constitution and synthesis of Vitamin A.
9. Chemistry of anabolic steroids.
10. Synthesis of uric acid.
11. Chemistry of menthol and cineol.
12. What are the biological importance of carbohydrates and its stereochemistry.

Answer briefly:

(10x3=30)

13. Chemistry of bile acids and salts.
14. Nucleotides and nucleosides.
15. Draw the structure and uses of prednisolone.
16. Chemical test for saponins.
17. Purine and pyrimidine bases.
18. Structure of sucrose and lactose.
19. Chemistry of bufanolides with examples.
20. Sources and skeletal structure of carotenes.
21. Vasopressin.
22. Osazone test.
