

**QP CODE: 303008**

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

**Third Professional B. Pharm (Ayurveda) Degree Supplementary  
Examinations August 2024**

**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. Explain the configuration of glucose on the basis of Fisher proof.

**Short notes:**

**(10x5=50)**

3. Classify nucleic acid with examples.
4. Synthesis of Vitamin A.
5. Cellulose derivatives.
6. Colour reactions of proteins.
7. Constitution of riboflavin.
8. Chemical test for steroids.
9. Stereochemistry of glucose.
10. Biological importance of testosterone.
11. Biological importance of oxytocin.
12. Synthesis of ephedrine.

**Answer briefly:**

**(10x3=30)**

13. Chemistry of ergosterol.
14. Chemistry of thyroxine.
15. Uses of diosgenin.
16. Identification test for sapogenins.
17. Mutarotation in glucose.
18. Three uses of progesterone.
19. Isoprene rule and special Isoprene rule.
20. Murexide test.
21. Thiochrome test.
22. Classify the terpenoids. Give examples.

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