

QP CODE: 303008

Reg. No.....

**Third B.Pharm (Ayurveda) Degree Supplementary Examinations March
(November), 2020
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 of atropine with its synthesis.
2. Explain the configuration of glucose on the basis of Fisher proof

Short notes:

(10x5=50)

3. Classify nucleic acid with examples.
4. What are cardiac glycosides. Explain the chemistry of digitalis purpurea.
5. Explain the synthesis of vitamin A.
6. Synthesis of Benzestol
7. Chemistry and biological importance of insulin.
8. Explain any two method involved in the determination of N-methyl group present in alkaloids.
9. Explain cellulose derivatives.
10. Classify vitamins with suitable examples and structure.
11. Explain chemistry of thyroxine.
12. What are prostaglandins, explain it on the basis of suitable structures

Answer briefly:

(10x3=30)

13. Synthesis of caffeine.
14. Purine and pyrimidine bases.
15. Define terpenoids. What is isoprene and special isoprene rules.
16. What are the chemical test for glycosides
17. Constitution of menthol.
18. Explain the chemistry of stigmasterol
19. Chemistry of bufanolides with examples.
20. Synthesis of thiamine.
21. Activity of dexamethasone.
22. Uses of diosgenin.
