

QP CODE: 303008

Reg. No.....

Third B.Pharm (Ayurveda) Degree Supplementary Examinations April 2019
Chemistry of Natural products

Time: 3 Hours

Total Marks: 100

- **Answer all questions**

Essays: (2x10=20)

1. Discuss the nature of Prostaglandins and their biological importance in detail.
2. Define and classify the terpenes. Describe the general methods of synthesis of camphor and menthol

Short notes: (10x5=50)

3. Explain about pharmaceutical importance of carbohydrates.
4. The chemical tests for steroids and chemical and biological importance of insulin.
5. What are cardiac glycosides. Explain the chemistry of digitalis purpurea linn.
6. Explain cellulose derivatives.
7. Name various vitamin D's and its pro-vitamins
8. Peptide.
9. Structural formula and uses of maltose and progesterone.
10. Industrial applications of enzymes.
11. What is mutarotation and mention the cyclic structure of glucose.
12. Give the structure and uses of caffeine

Answer briefly: (10x3=30)

13. Explain the chemistry of stigmasterol.
14. Define and classify hormones with examples.
15. Name any three synthetic steroids used as oral contraceptives and mention their structures.
16. Explain about chemical properties of D-glucose.
17. Why glucose and fructose give the same osazone.
18. Describe general methods for isolation of alkaloids.
19. Method of preparation and structure of cymarose.
20. General introduction of glycoside.
21. Name sterol.
22. Skeletal structure of testosterone.
