

QP CODE:303008

Reg.No.....

Third B.Pharm(Ayurveda) Degree Supplementary Examinations, April 2014

Chemistry of Natural products

Time : 3 Hours

Total Marks:100

- **Answer all questions**

Essays:

(2x10=20)

1. Discuss the structural elucidation of amygdaline.
2. Explain the configuration of glucose on the basis of Fisher proof.

Short notes:

(10x5=50)

3. Chemistry of xanthine bases.
4. Synthesis of riboflavin.
5. What is mutarotation and mention the cyclic structure of glucose.
6. Structural elucidation of ephedrine.
7. How do you prove the presence of carbonyl and double bonds in terpenoids.
8. Explain the synthesis of cortisone and hydrocortisone. Mention its uses.
9. Name various vitamin D's and its pro-vitamins.
10. Structural formula and uses of maltose and progesterone.
11. Industrial applications of enzymes.
12. General methods employed for the determination of structure of alkaloids.

Answer briefly:

(10x3=30)

13. Biological sources and uses of oxytocin.
14. Outline the synthesis of α -ionone.
15. Chemistry of bile acids.
16. What are bufadienolides with examples.
17. Haloform reaction.
18. Color reactions of proteins.
19. What are steroids with examples.
20. Identification of alkaloids.
21. Structure and uses of nitro cellulose.
22. Write the Structure of RNA and DNA
