QP CODE:303008 Reg.No......

## Third Year B.Pharm(Ayurveda) Degree Supplementary Examinations, March 2015

## **Chemistry of Natural products**

Time: 3 Hours Total Marks:100

## Answer all questions

Essays: (2x10=20)

1. Explain the structure elucidation of any one of tropane alkaloid.

2. Classify terpenoids with special reference to number of isoprene units present. Mention the structures to each class.

Short notes: (10x5=50)

- 3. Synthesis of ascorbic acid.
- 4. Structure and use of any three purines.
- 5. What are cardenolides and bufadienolides. Mention the structure of each class.
- 6. Explain the chemical test for alkaloids.
- 7. Structure elucidation of ephedrine.
- 8. Outline the synthesis and use of camphor.
- 9. What are the pharmaceutical importances of carbohydrates.
- 10. Explain the Ziezel's method and Herzig-Mayer's method in the structural determination of alkaloids.
- 11. Explain the source and use of oxytocin and vasopressin.
- 12. Define proteins, classify them with suitable example.

Answer briefly: (10x3=30)

- 13. Chemistry of bile acids and salts.
- 14. Any two non-steroidal estrogens.
- 15. Synthesis of vitamin D.
- 16. Illustrate with example how alkaloids are classified on the basis of ring system present.
- 17. Describe the chemistry and synthesis of any one of the purine alkaloids.
- 18. Outline the Synthesis of Vitamin A
- 19. Chemistry of digitalis purpurea.
- 20. Explain the industrial application of enzymes.
- 21. Explain the method involved in the determination of methoxyl group present in alkaloids.
- 22. Draw the structure of any three terpenoids with its uses.

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