Third B.Pharm (Ayurveda) Degree Supplementary Examinations April 2018 Chemistry of Natural products

Time: 3 Hours

Answer all questions

Essays:

- 1. Describe the structure and synthesis of uric acid, theobromine and theophylline.
- 2. Describe about general methods of structural determination and add a note on chemical tests for alkaloids

Short notes:

- 3. Denaturation of proteins.
- 4. Describe about nucleoproteins and nucleic acids.
- 5. Structures of cineol, carvone, α terpeneol.
- 6. What are xanthenes. How do they differ from purines.
- 7. Define steroids. Write the nomenclature and skeletal structure of ergo sterol, stigma sterol, cholesterol and diosgenin.
- 8. Explain about chemistry and uses of ephedrine.
- 9. Define and name the essential amino acids and write the methods of synthesis of amino acids.
- 10. Explain about chemistry and uses of atropine.
- 11. Pharmaceutical importance of methylated xanthenes.
- 12. How do you identify the steroids and steroidal glycosides

Answer briefly:

- 13. Define alkaloid and classify them.
- 14. Halo form reaction.
- 15. Chemistry of bile acids.
- 16. Outline the synthesis of α ionone.
- 17. Structure and uses of nitrocellulose.
- 18. The structure of RNA and DNA.
- 19. Colour reactions of proteins.
- 20. Biological sources and uses of oxytocin.
- 21. Purine and pyrimidine bases.
- 22. Importance of glycone part with their SAR.

(10x3=30)

(10x5=50)

(2x10=20)

Reg. No.....

Total Marks: 100