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

Third Year B.Pharm (Ayurveda) Degree Examinations, October 2016 Chemistry of Natural products

Time: 3 Hours Total Marks: 100

Answer all questions

Essays: (2x10=20)

1. Discuss the constitution and synthesis of thiamine

2. What are alkaloids. Explain the general methods for determining the structure of alkaloids

Short notes: (10x5=50)

- 3. Define and classify proteins. Explain the biological importance of conjugated proteins
- 4. Nucleic acid and their biological importance
- 5. Outline the synthesis of ephedrine
- 6. Constitution of ascorbic acid
- 7. Identification test for steroids
- 8. Synthesis and medicinal uses of any two non-steroidal oestrogenic agents
- 9. Structure and biological importance of testosterone
- 10. Structural features of oxytocin and their biological importance
- 11. Discuss the nature of prostaglandins and their biological importance
- 12. Stereochemistry of glucose

Answer briefly: (10x3=30)

- 13. Sources and skeletal structure of carotenes
- 14. Chemistry of ergo sterol
- 15. Colour reactions of alkaloids
- 16. Chemistry of thyroxin
- 17. Structure and uses of diosgenin
- 18. Identification test for sapogenins
- 19. Structure and uses of betamethasone and fluromethylone
- 20. Isoprene and special isoprene rules
- 21. General methods of extraction of alkaloids
- 22. Anabolic steroids and their medicinal applications
