

**QP CODE:303008**

**Reg.No.....**

**Third B.Pharm (Ayurveda) Degree Supplementary Examinations,  
April 2017  
Chemistry of Natural products**

**Time : 3 Hours**

**Total Marks:100**

- **Answer all questions**

**Essays:**

**(2x10=20)**

1. Explain the constitution and synthesis of uric acid
2. Discuss the structural elucidation and chemistry of amygdalin

**Short notes:**

**(10x5=50)**

3. Nomenclature and stereochemistry of steroids
4. What are nucleotides and explain their biological importance
5. Classify enzyme and explain their industrial applications
6. Colour reactions of proteins
7. Structural elucidation of ephedrine.
8. Explain the structural features of insulin
9. Mutarotation and cyclic structure of glucose
10. Explain the constitution of riboflavin
11. Chemistry and biological significance of bile acids
12. Classify alkaloids with suitable examples

**Answer briefly:**

**(10x3=30)**

13. Structure and uses of ionones
14. Chemistry and uses of ergosterol
15. Nucleic acid and their biological importance
16. Synthesis of progesterone
17. Synthesis and uses of stilbestrol
18. Structural features and chemistry of cholesterol
19. Constitution of ascorbic acid
20. Structural formula and medicinal uses of triamcinolone
21. Give the structural formula of any three progestins used as oral contraceptives
22. Constitution of thymol

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