

Third Year B.Pharm Degree Examinations - August 2015

PHARMACEUTICAL CHEMISTRY IV
(Chemistry of Natural Products)
(2012 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Discuss the chemistry and structural elucidation of uric acid
2. Define and classify alkaloids with examples. Explain the structural elucidation of morphine
3. Discuss in detail the structural elucidation of vitamin A

Short notes

(14x5=70)

4. Explain the structure and biological activities of thyroid hormones
5. Chemistry and nomenclature of steroids
6. Chemistry and uses of camphor
7. The definition, method of determination and significance of saponification value
8. Explain Hoffmann's exhaustive methylation method with an example
9. Pharmaceutical importance of various carbohydrates
10. Mutarotation of carbohydrates
11. Steroidal oral contraceptive agents
12. Chemistry and pharmacological activity of atropine
13. Synthetic anabolic steroids
14. Explain any two important methods of preparation of amino acids
15. Biological importance of prostaglandins
16. Classification of amino acids
17. Chemistry and pharmaceutical uses of vitamin C and vitamin B₆
