

2010 Scheme

QP CODE: 302006 (Old Scheme)

Reg. No:

**Third Year B.Pharm Degree Supplementary Examinations
November 2019**

**Pharmaceutical Chemistry IV
(Chemistry of Natural Products)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write chemical structures/equations wherever necessary.

Essay

(3x10=30)

1. Explain the four levels of organization of protein structure
2. Give a detail account on structural determination of fructose
3. Explain the structural elucidation of uric acid.

Short notes

(14x5=70)

4. Write the relative configuration of some important monosaccharides with suitable examples
5. Discuss the structural features of starch
6. What are terpenoids. Explain the isoprene rule
7. An account on inter-relationship of caffeine, theophylline and theobromine
8. Explain the chemistry and pharmaceutical uses of vitamin D
9. Discuss the stereochemistry of steroids.
10. Write the chemistry of sapogenins
11. Define iodine value. Explain the method in the determination of iodine value for the given fat/oil
12. Give the synthesis and uses of a non-steroidal estrogenic compound
13. A note on steroidal oral contraceptive agents
14. Structure, biological activity and uses of aldosterone
15. Write structure, biological activity and uses of synthetic corticosteroids
16. Discuss the structural features and physiological activity of glucagon
17. Give an account on chemical classification of alkaloids with examples for each class
