

QP CODE: 312006 (new scheme)

Reg. No:

Third Year B.Pharm Degree Examinations June 2019

**Pharmaceutical Chemistry IV
(Chemistry of Natural Products)
(2012 Scheme)**

Time: 3 Hours

Total Marks: 100

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

Essay

(3x10=30)

1. Elucidate the structure of ephedrine
2. Establish the structure of glucose.
3. Classify vitamins. Explain the chemistry and pharmaceutical uses of vitamin A & D.

Short notes

(14x5=70)

4. Structural features of uric acid
5. Describe the method for the determination of acid value and give its significance.
6. Explain the chemistry and biological activities of aldosterone.
7. Discuss the chemistry of cholesterol.
8. What are essential amino acids. Write the structure of any three essential amino acids.
9. Outline the structural features and physiological role of insulin.
10. Describe the epimerization of glucose.
11. Pharmaceutical importance of proteins
12. Structure and uses of synthetic anabolic steroids
13. Biological importance and structures of prostaglandins
14. Discuss the chemistry of sapogenins
15. Write any two methods for determination of N-terminal amino acid residue
16. Structure of starch
17. Classify alkaloids chemically with examples.
