

2012 Scheme

QP CODE: 312006

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. Elucidate the structure of atropine.
2. Classify terpenoids. Explain the chemistry and pharmaceutical uses of camphor.
3. Give the reactions to establish the ring structure and ring size of glucose.

Short notes

(14x5=70)

4. Describe the method for the determination of iodine value and give its significance.
5. Explain the chemistry and biological activities of cortisone.
6. Discuss the chemistry of caffeine.
7. What are reducing sugars and deoxy sugars. Give examples.
8. Outline the Lobry De Bruyn-Van Ekenstein reaction.
9. Classify proteins with examples.
10. Describe the structural features and pharmaceutical uses of vitamin C.
11. Structure and biological activities of triiodothyronine.
12. Discuss the inter-relationship of estrone, oestradiol and oestriol.
13. Steroidal oral contraceptive agents.
14. Discuss the SAR of cardiac glycosides.
15. Write any two methods for determination of C-terminal amino acid residue
16. Discuss the sequence differences in insulins of different species
17. Explain the chemistry and physiological activities of bile acids
