

Third Year B.Pharm Degree Supplementary Examinations June 2019
Pharmaceutical Chemistry IV
(Chemistry of Natural Products)
(2010 Scheme)

Time: 3 Hours**Total Marks: 100**

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

Essay**(3x10=30)**

1. Give a detail account on structural determination of Glucose
2. Explain the chemical properties and methods of synthesis of Amino acids
3. Give an account on general methods of structural elucidation of alkaloids.

Short notes**(14x5=70)**

4. Write the structure of disaccharides and explain the non-reducing nature of sucrose
5. Explain the structural features of cellulose and its derivatives
6. Explain the chemistry and uses of Camphor
7. Explain the structural elucidation of ephedrine
8. An account on inter-relationship of xanthine bases
9. Discuss the nomenclature of steroids.
10. Give an account on SAR of cardiac glycosides
11. Define acid value. Explain a method for its determination. Write its significance
12. Write structure, biological activity and uses of hydrocortisone
13. Discuss the interrelationship of estrone, estradiol and oestriol
14. Write structure, biological activity and uses of aldosterone
15. Give the synthesis of progesterone from cholesterol
16. Write the structure, biological activity and uses of triiodothyronine
17. Explain structure and biological importance of prostaglandins
