

Third Year B.Pharm Degree Supplementary Examinations – January 2017

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. What are cardiac glycosides. Explain the chemistry of cardiac glycosides
2. Explain the structural elucidation of caffeine
3. Discuss the isolation and general methods of structural elucidation of alkaloids

Short notes

(14x5=70)

4. What are prostaglandins and mention its structure and uses.
5. Chemistry and uses of alpha-terpineol
6. Explain the interrelationship of oestrone, oestradiol and oestriol
7. Cellulose derivatives used in pharmacy
8. Define acid value and explain the method used to determine acid value
9. Chemistry of cholesterol
10. Ring structure of glucose
11. Classify terpenoids and mention isoprene rule
12. Explain the structural elucidation of ephedrine
13. Important synthetic gluco-corticoids
14. Explain N-terminal residue analysis
15. Deoxy sugars
16. Explain the structure, biological activities and uses of testosterone
17. Chemistry and pharmaceutical uses of vitamin B₁
