

Third Year B.Pharm Degree Examinations July 2018

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. Describe the C-terminal and N-terminal structure determination of peptide.
2. What are cardiac glycosides. Explain the chemical structure of different cardiac glycosides obtained from digitalis purpurea.
3. Classify terpenoids. Explain the chemistry and uses of alpha-terpineol.

Short notes

(14x5=70)

4. Vitamin B₆.
5. Explain the chemistry of bile acids.
6. Outline the synthesis of progesterone from cholesterol.
7. Structural features of insulin
8. Explain the chemistry of vitamin B₁.
9. Establish the structure of caffeine.
10. Structures and biological importance of prostaglandins.
11. Any three structures of synthetic anabolic steroids.
12. Any two methods for the peptide synthesis.
13. Explain the chemistry and pharmacological activity of morphine.
14. Describe the method for the determination of acid value of oil.
15. Explain the chemistry of vitamin D
16. Primary structure of proteins
17. The structure of cellulose.
