

Third Year B.Pharm Degree Examinations June 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. Elucidate the ring structure of glucose.
2. Classify amino acids. Describe any two methods for the synthesis of amino acids.
3. Define saponification and acid values. Explain the principle involved in the determination of saponification value of any oil.

Short notes

(14x5=70)

4. The structure of starch.
5. Any three chemical reactions of amino acids.
6. Explain the chemistry of camphor.
7. Establish the structure of ephedrine.
8. Explain the chemistry of sapogenins.
9. Explain the chemistry of vitamin A
10. Pharmaceutical importance of carbohydrates.
11. What are proteins. Describe the tertiary structure of protein.
12. Any one method for the isolation of alkaloids.
13. Biological activities and uses of different synthetic corticosteroids.
14. Define iodine value with its significance.
15. Synthesis of caffeine
16. Explain different physical properties of proteins.
17. Structures of sucrose and lactose.
