

PHARMACEUTICAL CHEMISTRY IV
(Chemistry of Natural Products)
(2010 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Discuss in detail secondary and tertiary structure of proteins
2. Explain the structural elucidation of atropine.
3. Describe in detail about chemistry of sapogenins.

Short notes

(14x5=70)

4. Mutarotation and ring structure of glucose
5. Zwitterionic nature of amino acids and denaturation of proteins.
6. Chemistry and uses of geraniol.
7. Skeletal structure and pharmaceutical uses of vitamin C and vitamin D.
8. Inter relationship of caffeine, theobromine and theophylline.
9. Discuss the method to determine the acid value of fats and oils.
10. Chemistry of cholesterol.
11. Structure and interrelationship of estrone, oestradiol and oestriol.
12. Steroidal oral contraceptive agents.
13. Skeletal structure and uses of thyroxin and triiodothyronine.
14. Structure and uses of important synthetic corticosteroids.
15. How do you ascertain the presence and number of carboxyl group and alkoxy group in alkaloids
16. Conjugated proteins and derived proteins
17. Structure and properties of sucrose
