

Third Year B.Pharm Degree Supplementary Examinations - January 2016

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. Explain the chemistry, structural elucidation and pharmacological activity of atropine
2. Discuss the structure of glucose and explain how will you determine the ring size of glucose
3. Discuss the analytical constants of fats and oils. Explain the methods for their determination and its significance

Short notes

(14x5=70)

4. Synthesis of progesterone from cholesterol
5. Isoelectric point and epimerisation
6. Explain the secondary structure of protein
7. Explain the structure, biological activities and uses of aldosterone
8. Chemistry of bile acids
9. Essential amino acids with structures
10. Explain the chemistry of sapogenins
11. Chemistry and uses of ionones
12. Structural features of insulin
13. Chemistry and uses of geraniol
14. Inter relationship of caffeine, theobromine and theophylline
15. Skeletal structure and biological activities of thyroxin and triiodothyronine
16. Chemical structure and uses of clinically useful prostaglandins
17. Explain the synthesis and uses of any two non-steroidal oestrogenic compounds
