

2012 Scheme

QP CODE: 312006

Reg. No:

Third Year B.Pharm Degree Supplementary Examinations March 2024 Pharmaceutical Chemistry IV

(Chemistry of Natural Products)

Time: 3 Hours

Total Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Write chemical structures/equations wherever necessary.

Essay

(3x10=30)

1. Classify carbohydrates with examples. Explain the ring structure of Glucose.
2. Discuss the various physical properties of Proteins. How the end group analysis is carried out.
3. Explain the inter-relationship of Estrone, Oestradiol and Oestriol. Add a note on steroidal oral contraceptive agents.

Short notes

(14x5=70)

4. Explain the chemistry and uses of Geraniol.
5. Discuss the general isolation methods of Alkaloids.
6. Explain the chemistry of Saponins.
7. Classify Alkaloids with structures.
8. Enumerate the pharmaceutical uses of Vitamin C.
9. Explain the structural elucidation of Caffeine.
10. What are the analytical constants of fats and oils.
11. Classify Proteins with examples. Add a note on denaturation of proteins.
12. Mutarotation with example.
13. Explain the nomenclature of Steroids.
14. Enlist the biological importance of Prostaglandins.
15. Explain the chemistry and biological actions of Triiodothyronine.
16. Explain Osazone formation with example.
17. Discuss the pharmaceutical importance of Amino acids.
