

2010 Scheme

QP CODE: 302006

Reg. No:

Third Year B.Pharm Degree Supplementary Examinations December 2022

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 vitamins and explain structural elucidation and pharmaceutical uses of vitamin B₂
2. Write chemical classification, general isolation and structural elucidation of alkaloids
3. What are hormones. Write the synthesis and uses of nonsteroidal estrogenic compounds

Short notes

(14x5=70)

4. Explain the chemistry of cholesterol and ergosterol
5. Explain important reaction in the structural elucidation of ephedrine
6. Biological actions and uses of aldosterone
7. Give an account on terminal group analysis for the structural determination of peptides
8. Write in detail about chemistry and pharmaceutical uses of vitamin A and C
9. Essential amino acids with examples
10. Explain denaturation of primary and tertiary proteins
11. Explain on pharmaceutical importance of various carbohydrates
12. Explain inter-relationship of xanthine bases
13. Explain sequence difference in insulin of human, porcine and beef
14. Nomenclature of steroids
15. What are fats and oils. Explain the method of determination of acid value.
16. Write biological importance and structures of prostaglandins
17. Discuss the structures of maltose, lactose and sucrose
