

2010 Scheme

QP CODE: 302006

Reg. No:

Third Year B.Pharm Degree Supplementary Examinations May 2023 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. Explain structural elucidation and mention any two pharmacological activities of morphine.
2. Discuss chemistry of cardiac glycosides including their chemical structure and SAR
3. Write classification of amino acids along with their method of preparation

Short notes

(14x5=70)

4. Discuss isoprene rules, write the uses of geraniol and camphor
5. Biological importance and structure of prostaglandins
6. Biological actions and uses of synthetic corticosteroids
7. Explain methods for determination of analytical constants for fats and oils
8. Numbering of steroids ring system
9. Give the structure of thyroxine and triiodothyronine and explain the biological activities of thyroxine
10. Write about the following reaction
 - a) Osazone
 - b) Action of barium hydroxide
 - c) Lobry De Bruyn-Van Ekenstein reactions
11. Pharmaceutical importance of various carbohydrates
12. Explain inter relationship of xanthine bases.
13. Classify vitamins with examples and mention their pharmaceutical uses
14. Chemistry of saponins.
15. What are hormones of pancreas. explain structure and physiological role of glucagon
16. Chemistry of ergosterol and bile acids
17. Explain denaturation of proteins
