

2010 Scheme

QP CODE: 302006

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 terpenoids. Explain isoprene rule. Outline the chemistry and uses of camphor.
2. Classify Vitamins and explain the structure elucidation of Vitamin B₂
3. Explain in detail about the structure and physiological roles of prostaglandins.

Short notes

(14x5=70)

4. Classify amino acids with examples.
5. What is isoelectric point. Give its significance.
6. Elucidate the structure of ephedrine.
7. Describe the pharmaceutical importance of carbohydrates.
8. What are fats and oils. List the analytical constants of fats and oils.
9. Explain the relative configuration of monosaccharides.
10. Chemistry and pharmacological activities of atropine and morphine.
11. Enumerate the interrelationship of caffeine, theophylline and theobromine
12. Define acid value and give its significance.
13. Explain the chemistry of bile acids.
14. Explain the nomenclature of steroids.
15. Write short notes on synthetic anabolic steroids.
16. Give the biological importance of glucagon.
17. Chemistry of cardiac glycosides.
