

# 2010 Scheme

QP CODE: 302006

Reg. No: .....

## Third Year B.Pharm Degree Supplementary Examinations August 2021 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. Give an account on the relative configuration of some important monosaccharides with suitable examples.
2. Discuss the structural elucidation of Atropine.
3. Explain the chemistry of cardiac glycosides

### Short notes

(14x5=70)

4. Explain on steroidal oral contraceptive agents
5. Discuss the structural features and physiological role of Insulin
6. Define iodine value. Give the method of determination of iodine value of fat/oil
7. Explain the structural features of proteins
8. Give an account on chemical classification of alkaloids with examples for each class
9. Write the chemistry and uses of Geraniol, Camphor, and Ionone
10. Discuss the pharmaceutical importance of carbohydrates
11. Explain the determination of peptide structure using end group analysis
12. Add an account on interrelationship of Caffeine, theobromine, and theophylline
13. Explain the chemistry and pharmaceutical uses of vitamin B1 and B2
14. Write the structure, biological activity and uses of glucocorticoids
15. Discuss the chemistry and pharmacological activity of Morphine
16. Explain the ring size determination of Glucose
17. Discuss the chemical properties of amino acids

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