

# 2012 Scheme

QP CODE: 312006

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. Explain the structural elucidation of atropine.
2. Enlist any methods of preparation of aminoacids.
3. Explain the various properties of sucrose. Add a note on the importance of cellulose derivatives.

#### Short notes

(14x5=70)

4. Write a note on prostaglandins with their biological importance
5. Explain the physiological role of glucagon
6. Discuss the synthesis and uses of non-steroidal estrogenic compounds.
7. Enumerate the various uses of aldosterone.
8. Explain the chemistry of cholesterol.
9. Explain the various analytical constants of Fats and Oils.
10. Discuss the inter-relationship of caffeine, theobromine and theophylline.
11. Classify Vitamins with examples.
12. Elucidate the structure of Vitamin B<sub>6</sub>.
13. Explain the Chemistry of Cardiac Glycosides.
14. Discuss the Isoprene rule and enlist the uses of Camphor.
15. Zwitter ionic nature of aminoacids and its importance.
16. Write any two methods for the synthesis of peptides.
17. Classify carbohydrates with examples.

\*\*\*\*\*

**CORRECTION / NO-CORRECTION FILE**

**QPCODE: 312006**

**Dated: 14-12-2022**

**There are no corrections in today's question paper.**

**This matter to be announced by the Chief Supdt./Invigilator and get the signature of two students - one from the front row and one from the back row, as a proof of this announcement.**

**(Sd/-)**

**CONTROLLER OF EXAMINATIONS**