

# 2010 Scheme

QP CODE: 102006

Reg. No: .....

## First Year B. Pharm Degree Supplementary Examinations January 2024

### Pharmaceutical Chemistry - II

#### (Organic Chemistry)

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 equations wherever necessary.

#### Essay

(3x10=30)

1. Explain a) Benzoin Condensation b) Aldol Condensation with mechanism.
2. Explain the characteristic reactions of benzene and orientation in monosubstituted benzenes.
3. Explain Hofmann's degradation reaction of amides with example and a note on dicarboxylic acids with suitable examples.

#### Short notes

(14x5=70)

4. Explain Diazotization reaction with a suitable example.
5. Discuss the nomenclature of Nitriles and Isonitriles.
6. Explain the importance of acetoacetic esters in synthesis.
7. Explain reduction of carboxylic acids with two examples.
8. Discuss the stability of conjugated dienes.
9. Explain the importance of Ziesels method.
10. Enlist any three methods of preparation of alcohols.
11. Classify alcohols with suitable examples.
12. Saytzeff rule.
13. Explain free radical substitution reaction (halogenation).
14. Explain Bayers strain theory.
15. Discuss the various electronic effects in organic molecule.
16. Discuss Kekule structure of benzene.
17. Explain Keto-Enol tautomerism with example.

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