

QP Code: 321006

Reg. No.....

**Third Semester B. Pharm Degree Supplementary Examinations
October 2024**

Pharmaceutical Organic Chemistry - II

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- *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*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(2x10=20)

1. List out the various analytical constants. Elaborate on the principle and significance of acid value and acetyl value.
2. Explain the nitration and sulphonation reaction mechanisms of benzene.

Short Notes

(7x5=35)

3. Write a note on the effect of substituents on the orientation of mono substituted benzene.
4. Give a note on saturated and unsaturated fatty acids.
5. Summarize on Huckel's rule.
6. Mention the synthesis and reactions of anthracene.
7. Discuss on Coulson and Moffit's modification.
8. Write the reactions of cyclopropane and cyclobutane.
9. Write down the evidences for deriving the structure of benzene.

Answer Briefly

(10x2=20)

10. Mention a mode of preparation for an aromatic amine.
11. Why poly nuclear hydrocarbons are named so.
12. Define saponification with example.
13. Drying of oils.
14. List out any four important reactions of phenols.
15. Mention any two examples of fatty acids.
16. Write the structure and chemical name of any two aromatic amines.
17. Draw the resonating forms of benzene.
18. What are Lewis acids and Lewis bases.
19. Point out two limitations of Baeyer's strain theory.
