

QP Code: 321006

Reg. No.....

**Third Semester B. Pharm Degree Regular/Supplementary Examinations
June 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. What are polynuclear hydrocarbons. Explain the methods of preparation and reactions of naphthalene
2. Define saponification value. Write the principle and procedure involved in its determination. What is the significance of saponification value

Short Notes

(7x5=35)

3. Explain the molecular orbital structure of benzene
4. Write the electrophilic substitution reactions of benzene
5. Write any two methods of preparation and any three reactions of phenanthrene
6. Explain the acidity of phenols
7. What is diazotization. Write any five synthetic uses of aryl diazonium salts
8. What are fats and oils. Explain the hydrolysis and hydrogenation of fats and oils
9. Explain why cyclohexane is more stable than cyclopropane

Answer Briefly

(10x2=20)

10. Friedal Craft's acylation reaction
11. State Huckel's rule
12. Write the structure and use of (a) Resorcinol (b) BHC
13. What is the effect of electron releasing groups on the acidity of phenols
14. Carbylamine reaction
15. Write the structure and use of any two medicinal compounds containing diphenyl methane nucleus
16. Acid value
17. Write any two reactions of phenols
18. Write any two methods of preparation of aromatic amines
19. Coulson and Moffitt's modification.
