

QP Code: 321006

Reg. No.....

**Third Semester B.Pharm Degree Regular/Supplementary
Examinations January 2020**

Pharmaceutical Organic Chemistry - II

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Draw Chemical Structures wherever necessary

Essays

(2x10=20)

1. Explain Huckels rule. Write the theory of reactivity of activating and deactivating group present on the phenyl ring.
2. What are fused polynuclear hydrocarbons. Write the Haworth synthesis of naphthalene and any two chemical reactions of it. Name the medicinally important derivatives of naphthalene along with uses.

Short Notes

(7x5=35)

3. Define iodine value. What are drying oils and non-drying oils. Give examples.
4. Arrange the following in their increasing order of basicity with justification:
Dimethylamine, Ammonia, Triethylamine, N-methylaniline.
5. What is Baeyer strain theory. Write its limitations.
6. Explain the Friedal-Crafts acylation of benzene with mechanism of reaction.
7. Give the characteristic identification tests for phenols.
8. What are isolated polynuclear hydrocarbons. Give any one synthesis and reaction of diphenylmethane.
9. What are oils. Give examples of saturated and unsaturated fatty acid

Answer Briefly

(10x2=20)

10. What is ester value. Mention its significance.
11. What is rancidity of oils
12. Name the medicinally important derivatives of phenanthrene and their uses.
13. Any one method of synthesis of cyclopropane.
14. The structure of DDT and chloramine
15. Structure of water soluble phenols.
16. What is hydrogenation of oils
17. The bond angles of cyclohexane.
18. The reactions of cyclobutane.
19. Compare the acidity of *m*-cresol and *m*-nitrophenol
