

QP Code: 321006

Reg. No.....

Third Semester B.Pharm Degree Supplementary Examinations
June 2019

Pharmaceutical Organic Chemistry - II

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Draw Chemical Structures wherever necessary

Essays

(2x10=20)

1. What are oils. Give examples for saturated and unsaturated fatty acids. Define acid value, saponification value, iodine value along with their significance.
2. What are fused poly-nuclear hydrocarbons. Write the Haworth synthesis of naphthalene and any two chemical reactions of it. Name the medically important derivatives of naphthalene along with uses.

Short Notes

(7x5=35)

3. Explain Friedal-Crafts alkylation reaction of benzene with mechanism and write its limitations.
4. Arrange the following in their increasing order of basicity with justification: Aniline, Ammonia, Triethylamine, N-methylaniline.
5. What is Baeyer's strain theory. Write its limitations.
6. What are diazonium salts. Name the different types of reactions with any two examples of it.
7. Write the structure of the following compounds: DDT, Diphenyl methane, Chloramine, Anthracene, Saccharin.
8. Explain Huckel's rule with examples.
9. Give the characteristic identification tests for phenols

Answer Briefly

(10x2=20)

10. What is the nitrating mixture used for its reaction in benzene.
11. Write any two reactions of cycloalkanes.
12. Why phenols undergo bromination reaction more readily than methoxybenzene.
13. Name the functional groups that deactivate aromatic ring.
14. Name the water soluble phenol and write its structure.
15. Compare the acidity of phenol with o-cresol.
16. What is hydrogenation of oils
17. Resonance structures of benzene and resonance stabilization.
18. Name the medically important derivatives along with uses of phenanthrene.
19. What is the bond angle in cyclohexane
