

QP Code: 321006

Reg. No.....

**Third Semester B.Pharm Degree Regular/Supplementary  
Examinations October 2021**

**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. Outline any two methods of synthesis of naphthalene and discuss four important reactions of naphthalene
2. Explain the effect of substituents on orientation of mono substituted benzene towards electrophilic aromatic substitution.

**Short Notes**

**(7x5=35)**

3. Discuss the limitations of Baeyer's strain theory.
4. Define acid value and explain the method of determination and significance.
5. Discuss the effect of substituents on acidity of phenols
6. Important chemical reactions of cyclobutane
7. Discuss the basicity of amines
8. Explain halogenation reactions of benzene with mechanism
9. Write two important reactions of diphenyl methane and triphenyl methane

**Answer Briefly**

**(10x2=20)**

10. Structure and uses of BHC
11. Huckel's rule
12. Structure and uses of naphthols
13. Limitations of Friedelcrafts alkylation
14. Define fats and oils with examples
15. Significance of carbylamine test
16. Coulson and Moffitt's modification
17. Reimer Tiemann reaction
18. Rancidity of oils
19. Define ester value and give its significance

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