

QP Code: 321006

Reg. No.....

**Third Semester B.Pharm Degree Supplementary Examinations  
December 2020**

**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 anthracene and discuss four important reactions of anthracene
2. Explain the effect of substituents on reactivity of mono substituted benzene towards electrophilic aromatic substitution

**Short Notes**

**(7x5=35)**

3. Discuss Baeyer's strain theory.
4. Define iodine value and explain the method of determination and significance of iodine value.
5. Discuss the effect of substituents on basicity of amines.
6. Important chemical reactions of cyclopropane
7. Discuss the acidity of phenols
8. Explain nitration reactions of benzene with mechanism
9. Two important reactions of phenanthrene and triphenyl methane

**Answer Briefly**

**(10x2=20)**

10. Structure and uses of chloramine.
11. Reichert Meissel value
12. Limitations of Friedel-Crafts alkylation reaction
13. Define drying, semidrying and nondrying oils with examples
14. Significance of carbylamine test
15. Coulson and Moffitt's modification
16. Two uses of diphenyl methane
17. Hydrogenation reactions of oils
18. Define acetyl value and give its significance
19. Two important synthetic uses of aryl diazonium salts

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