

QP Code: 321006

Reg. No.....

**Third Semester B. Pharm Degree Supplementary Examinations  
April 2022**

**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. Elucidate the structure of benzene on the basis of analytical, synthetic and other evidences
2. Discuss the synthetic utility of aryl diazonium salts

**Short Notes**

**(7x5=35)**

3. Write the reactions of cyclopropane
4. Define and classify polynuclear hydrocarbons with examples. Write any three reactions of anthracene
5. Discuss the methods of preparation of triphenyl methane. Give the names and uses of any two medicinal compounds containing this nucleus.
6. State and explain Huckel's rule
7. Define ester value and write its significance. Explain the principle involved in its determination
8. Explain the effect of substituents on the basicity of amines
9. Write any two methods of preparation and any three reactions of phenol

**Answer Briefly**

**(10x2=20)**

10. Write the structure and use of (a) DDT (b) Chloramine
11. What are ortho-para directors. Give examples
12. What is Hoffmann rearrangement
13. Why aromatic amines are less basic than aliphatic amines
14. Write any two reactions of fatty acids
15. Draw the strainless conformations of cyclohexane. Comment on the stability of these forms.
16. Limitations of Friedel Crafts reactions
17. Write any two reactions of naphthalene
18. What is carbylamine reaction
19. What happens when phenol is treated with (a) Conc.HNO<sub>3</sub> (b) Aqueous bromine

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