

Paper Id:

150301

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B. PHARM
(SEM III) THEORY EXAMINATION 2019-20
PHARMACEUTICAL ORGANIC CHEMISTRY-II

*Time: 3 Hours**Total Marks: 75***Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

- 1. Attempt *all* questions in brief. **10 x 2 = 20****
- a. Give structure and uses of DDT.
 - b. Give molecular orbital picture of benzene.
 - c. Why phenol is acidic in nature?
 - d. What is Friedal craft acylation? Explain with suitable reaction.
 - e. Give structure and uses of Naphthols.
 - f. Explain acid value.
 - g. Give Hawarth synthesis of phenanthrene.
 - h. Give stability order of cycloalkanes.
 - i. Draw any four aromatic structures.
 - j. Give structure and uses of diphenylmethane.

SECTION B

- 2. Attempt any *two* parts of the following: **2 x 10 = 20****
- a. Give structure, preparation and properties of phenol.
 - b. Give analytical, synthetic and other evidences in derivation of structure of benzene.
 - c. Write a note on theory of strainless ring.

SECTION C

- 3. Attempt any *five* parts of the following: **5 x 7 = 35****
- a. Give Huckel's theory with suitable examples.
 - b. Give structure, preparation and properties of benzoic acid.
 - c. Give effect of substituent on orientation of monosubstituted benzene compounds towards electrophilic substitution reaction.
 - d. Explain saponification and iodine number.
 - e. Give reactions of fat and oils.
 - f. Give Baeyer's strain theory and its limitation.
 - g. Give structure, preparation and properties of naphthalene.