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B.PHARM
(SEM III) THEORY EXAMINATION 2022-23
PHARMACEUTICAL ORGANIC CHEMISTRY –II

Time: 3 Hours**Total Marks: 75****Note:** 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 medicinal uses of Anthracene.
- (b) Differentiate Acid value and Saponification value.
- (c) What do you mean by banana bonding?
- (d) Give structure and uses of DDT.
- (e) Why phenols are Acidic in nature?
- (f) Give uses of aryl diazonium salts.
- (g) What is Sachse Mohr's theory
- (h) Give molecular orbital picture of benzene.
- (i) What is Huckel's rule.
- (j) Write structure and uses of cresols and resorcinol.

SECTION B**2. Attempt any twoparts of the following:****2 x 10 = 20**

- (a) Discuss Friedel Crafts alkylation-reactivity, limitations and Friedel Crafts acylation.
- (b) Explain general methods of preparation and reactions of Aromatic Acids.
- (c) Write short note on basicity of aromatic amines and effect of substituents on basicity.

SECTION C**3. Attempt any fiveparts of the following:****7 x 5 = 35**

- (a) Write synthesis, reactions, structure and medicinal uses of Naphthalene
- (b) Explain effect of substituents on reactivity and orientation of mono substitutedbenzene compounds towards electrophilic substitution reaction.
- (c) Discusssignificance and principle involved in determination of Acetyl value and Reichert Meissl (RM) value.
- (d) Give Synthesis, reactions, Structure and medicinal uses of Diphenylmethane, or Triphenylmethane and their derivatives.
- (e) Elaborate general methods of preparation and reactions of cycloalkanes.
- (f) Explain Coulson and Moffitt's modification in detail.
- (g) Elaborate Baeyer's strain theory along with limitation of Baeyer's strain theory.