Sub Code: 4252



(LQ 4252)

FEBRUARY 2020

B.PHARM. DEGREE EXAMINATION FIRST YEAR

PAPER II – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code: 564252

Time: Three hours Maximum: 100 Marks

I. Elaborate on: $(2 \times 20 = 40)$

1. a) Describe Kekule structure of Benzene. Write ir resonanc e structure of Benzene.

- b) Elaborate mechanism, kinetic, st ereochemistry of Aliphatic Nucleophilic substitution reactions SN1 & SN2.
- 2. a) Write preparation of Alkyl halides.
 - b) Briefly enumerate preparation an d syntic utility of Malonic este
 - c) Write properties of Alpha Beta unsaturated carbonyl compounds.

II. Write notes on: $(8 \times 5 = 40)$

- 1. Explain Baeyer's strain theory and its limitations.
- 2. Explain Markownikoffs rule.
- 3. Give any five reactions of Anthracene.
- 4. Give preparation and medicinal uses of Saccharin.
- 5. Describe methods of preparation of Alcohols.
- 6. Explain Diels-alder reaction.
- 7. Write the preparation and syntic utility of Grignard reagent.
- 8. Describe mechanism of additi on reaction of Conjugated dienes.

III. Short answers on:

 $(10 \times 2 = 20)$

- 1. Define Resonance and Conjugation.
- 2. Draw structure of Diethyl er and Isopropyl alcohol.
- 3. What are chelating agents with examples?
- 4. Oxidation of primary alcohols.
- 5. Write two methods of synsis of alkenes.
- 6. Define and classify hybridization with examples.
- 7. Huckel's rule.
- 8. Enumerate functional deri vatives of carboxylic acid.
- 9. Epoxides.
- 10. Medicinal uses of Iodoform and Lactic acid.
