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(LN 4252)

AUGUST 2018

Sub Code: 4252

B.PHARM. DEGREE EXAMINATION FIRST YEAR PAPER II – PHARMACEUTICAL ORGANIC CHEMISTRY

Q.P. Code: 564252

Maximum: 100 Marks

I. Elaborate on:

Time: Three hours

- 1. a) Discuss the mechanism, thermodynamics and kinetics of reaction of methane with halogen.
 - b) Briefly enumerate the preparation and synthetic utility of acetoactic ester.
- 2. Discuss the synthesis and chemical properties of cycloalkanes. Explain about Bayer Strain theory and Coulson and Moffitt's modification.

II. Write notes on:

- 1. Write a detailed note on the Huckel's rule of aromaticity.
- 2. Explain the methods of synthesis of anthracene.
- 3. Write the preparation, test for purity and medicinal uses of amphetamine and acetanilide.
- 4. Explain briefly the generation and applications of carbocations.
- 5. Discuss briefly on functional derivatives of carboxylic acids.
- 6. Explain the free radical and electrophilic addition reactions of carbon carbon double bonds.
- 7. Write a note on basicity of amines.
- 8. Enumerate the hybridization pattern of alkanes.

III. Short answers on:

- 1. Write a note on tautomerism.
- 2. Write about Peroxide effect.
- 3. Write any two chemical properties of Benzene.
- 4. Give the structural formula of lactic acid and glycol.
- 5. Write the structure of ethyl methyl ketone and ethylene oxide.
- 6. Write on Cannizaro reaction.
- 7. Malonic ester synthesis.
- 8. Carbanions.
- 9. Write one method of synthesis of alkyl halides.
- 10. Oxidation of primary alcohols.

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 $(2 \times 20 = 40)$

 $(8 \times 5 = 40)$

(10 x 2 = 20)