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[KY 758] Sub. Code : 4252

FIRST B. PHARM. DEGREE EXAMINATION.

(Regulations 2009) Candidates Admitted from 2009-2010

Paper II — PHARMACEUTICAL ORGANIC CHEMISTRY

O.P. Code: 564252

Time: Three hours Maximum: 80 marks

I. Essay questions: Answer any TWO questions.

 $(2 \times 20 = 40)$

- (a) Define aromatic electrophlic substitution reactions. Discuss the reaction and mechanism of nitration sulphonation, and friedel-craft reaction, sulphonation, and friedel-craft reaction. (15)
 - (b) Describe clemmenser reduction with suitable example (5)
- (a) Define elimination reaction. Discuss the mechanism of E1 and E2 reaction with suitable example. (10)
 - (b) Write any four general methods of preparation of alkyl halides. (10)
- (a) Discuss Bayer's strain theory with suitable examples. (10)
 - (b) Explain the facts supporting kekule structure of Benzene. (10)

II. Write short notes: Answer any SIX questions.

 $(6 \times 5 = 30)$

- Write short note on peroxide effect.
- Explain nucleophilic substitution reaction with example.
- Write the preparation and synthetic utility of diazanium salts.
- Outline the general methods of preparation of alkynes.
- Discuss the basicity of amines.
- 6. Write note on Inductive effect.
- Write note on free radical reaction.
- Write any two method of preparation of alcohol.

III. Short answers: Answer any FIVE questions

 $(5 \times 2 = 10)$

- 1. Tollens reagent.
- Define hyper conjugation.
- Explain conjugated dienes.
- 4. Explain resonance effect.
- Lucas test.
- Give the structure for 5-Bromo-4-methyl-hex-3-en-2-one.
- Give the IUPAC name for Ho -CH₂ -CH₂ COOH.

