(LM 4252) FEBRUARY 2018 **Sub Code: 4252**

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 x 20 = 40)**

1. a) Define polynuclear hydrocarbons. Briefly explain the synthesis and chemical properties of naphthalene and diphenyl methane.
   b) Write briefly about Aldol condensation.

2. a) Brief out in detail about SN1 and SN2 reactions.
   b) Explain the mechanism of halogenations of alkanes.

II. Write notes on: **(8 x 5 = 40)**

1. State with example Markownikoff's rule.
2. Write the preparation, test for purity and medicinal uses of sodium lauryl sulphate and iodoform.
3. Explain the preparation and synthetic utility of diazonium salt.
4. Write a detailed note on free radicals.
5. Explain various methods of synthesis and reactions of alkanes.
6. Write a note on keto-enol tautomerism with examples.
7. Describe briefly Diel's-Alder reaction with mechanism.
8. Differentiate primary, secondary and tertiary amines.

III. Short answers on: **(10 x 2 = 20)**

1. Define hyper conjugation.
2. What is ozonolysis?
3. Huckel's rule of aromaticity.
4. Write the medicinal uses of phenindione and urethane.
5. Write the structure of acetic anhydride and propanal.
6. Write on clemmenson reduction.
7. Write about the types of bond fission.
8. Carbenes.
9. Write one method of synthesis of amines.
10. Oxidation of secondary alcohols.

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