

(LG 4252)

FEBRUARY 2015

Sub Code: 4252

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

Q.P. Code: 564252

Time: Three hours

Maximum: 100 marks

I. Essays:

(2 x 20 = 40)

1. Describe the mechanism, kinetics, stereochemistry and relative reactivity of alkyl halides in bimolecular nucleophilic aliphatic substitution reaction (SN₂).
2. Describe the generation, relative stability, fate and applications of Carbocations.

II. Short notes:

(8 x 5 = 40)

1. Describe the addition reaction in conjugated dienes
2. Mention the methods of preparation and reactions of Alcohols
3. Explain the mechanism of halogenations of alkanes
4. Give the preparation and properties of Naphthalene
5. Mention the preparation, test for purity and medicinal uses of Gammexane and Chloroform.
6. Describe inter-molecular forces.
7. Explain the influence of substituents on basic property of aromatic amines.
8. Write the preparation and synthetic utility of Grignard reagent.

III. Short answers:

(10 x 2 = 20)

1. Define tautomerism
2. Write about Markownikoff's rule
3. Brief about Huckel's rule
4. Give the structural formula of triphenyl methane and Ether
5. Define 'Electrophile'
6. Write the order of stability of different types of Free radicals
7. Give the structural formula and IUPAC name of Acetic acid
8. Mention the types of bond fission
9. Write the name and structural formula of any two protic solvents
10. Brief about oxidation of aldehydes
