

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[BPHARM 0921]

SEPTEMBER 2021
(FEBRUARY 2021 EXAM SESSION)

Sub. Code: 4252

B. PHARMACY DEGREE EXAMINATION
FIRST YEAR – (NON-SEMESTER)
PAPER II – PHARMACEUTICAL ORGANIC CHEMISTRY
Q.P. Code: 564252

Time: Three hours

Answer ALL questions

Maximum: 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Explain the Preparation and reactions of Alkenes.
2. What are Polynuclear Hydrocarbons? Write the synthesis and properties of (a) Napthalene (b) Anthracene.

II. Write notes on:

(8 x 5 = 40)

1. Give the Synthetic utility of Diazonium Salts.
2. Distinguish Primary, Secondary and Tertiary Amines.
3. Write the preparation and medicinal uses of (a) Saccharin (b) Amphetamine.
4. What are Carbenes? Give examples and explain about stability.
5. Describe Coulson and Moffitt's Modification.
6. Write the preparation and properties of Anthracene.
7. Explain Mechanism of Halogenations of Alkanes. Discuss the selectivity of halogens in this reaction.
8. Write short notes on Mesomeric effect.

III. Short answers on:

(10 x 2 = 20)

1. Write the structure and medicinal use of Methyl Salicylate.
2. Define Tautomerism.
3. Brief about Polarity of bond.
4. Give the structural formula of urethane and Acetanilide.
5. Define Nucleophiles.
6. Write the method of preparation of Iodoform.
7. Two reactions of Cycloalkanes.
8. Define Covalent bond.
9. Write a note on Cannizzaro reaction.
10. Define inductive effect.
