

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

[BPHARM 0321]

MARCH 2021

Sub. Code: 2016

(SEPTEMBER 2020 EXAM SESSION)

B. PHARMACY DEGREE EXAMINATION

PCI Regulation SEMESTER – II

PAPER II – PHARMACEUTICAL ORGANIC CHEMISTRY I

Q.P. Code : 562016

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Discuss the mechanism of E1 and E2 reactions of alkyl halides.
2. Explain in detail classification of organic compounds with common and IUPAC system of nomenclature of organic compounds.
3. Write short notes on:
 - a) Give the method of preparation of alcohol.
 - b) How to distinguish primary, secondary, tertiary alcohols.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Write a note on Sp^2 hybridization in alkenes.
2. Write a note on ozonolysis.
3. Discuss the reaction of salts of carboxylic acid.
4. Write in detail about structural isomerism with examples.
5. Explain Saytzeff's rule.
6. Write about cannizzaro reaction.
7. Explain Perkin's condensation.
8. What are amines and give the classification of it with examples.
9. What is Markownikoff's rule of addition.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. What do you mean by Tautomerism.
2. Name the following alkyl gp $CH_3-CH_2-CH_2-(CH_3)_2CH$.
3. Write the structural formula of,
 - a) 2-propenal
 - b) 2,2,4-trimethylpentene
4. Write the medicinal uses of
 - a) Benzoyl alcohol
 - b) Ethanolamine.
5. Write the structure and use of
 - a) Amphetamine
 - b) Propylene glycol
6. What is Hinsberg reagent?
7. What is Inductive effect?
8. What is allylic rearrangement.
9. Give the structure and use of Iodoform.
10. Define isomerism.
