Printed Pages: 01
Paper Id: 1 5 0 4 4 2

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Roll No.

B PHARM
(SEM II) THEORY EXAMINATION 2017-18
PHARMACEUTICAL ORGANIC CHEMISTRY–I

Time: 3 Hours *Total Marks: 75*

Note: 1. Attempt all Sections.

SECTION A

1. Attempt *all* questions in brief. 10 x 2 = 20

a. Write down the structure of 2,2,4-trimethylpentane and amyl alcohol

b. What are chiral and achiral compounds?

c. Discuss any two method of preparation of alkanes.

d. What is Hybridization?

e. Define structure and uses of Chloroform and Ethyl alcohol.

f. What is Vector Meyer's test?

g. Discuss the preparation of ketone from geminal di halides.

h. Define crossed aldol condensation.

i. What do you mean by nucleophile?

j. Define structure and uses of Acetic acid and Lactic acid,

SECTION B

2. Attempt any *two* parts of the following: 2 x 10 = 20

a. Differentiate E^1 and E^2 reactions with their kinetics and order of reactivity of alkyl halides. Explain factors affecting E^1 and E^2 reactions.

b. Give the methods of preparation of alkyl halides. Discuss about SN^1 and SN^2 reactions in detail.

c. What is carbonyl compound? Explain their qualitative test and methods of preparation.

SECTION C

3. Attempt any *five* parts of the following: 7 x 5 = 35

a. Give the detailed classification of organic compounds

b. Define Sp^3 hybridization in alkanes. Explain halogenation reaction of alkanes.

c. Describe Markovnikov and Anti-Markovnikov rule with suitable examples.

d. Discuss methods of preparation and reactivity of conjugated dienes.

e. Describe a detailed account of nucleophilic addition reaction of carbonyl compounds.

f. Explain Cannizzaro and Perkin reaction with mechanism.

g. Give the methods of preparation and reactivity of carboxylic acids. Explain the acidity of carboxylic acid.

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