

[BPHARM 0122]

JANUARY 2022
(MARCH 2021 EXAM SESSION)

Sub. Code: 2016

B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 – 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. Write about SN^1 and SN^2 reactions of alkyl halides.
2. Explain Diel's aldes reaction and free radical addition reaction of conjugated diene.
3. What is Isomerism? Classify them with suitable examples.

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

1. Write about allylic rearrangement.
2. What is Markownikoff's rule of addition.
3. Write a note on ozonolysis.
4. What are alcohols? Discuss various types of alcohols.
5. Discuss acidity of carboxylic acid.
6. Write about aldol condensation.
7. Explain why carbonyl carbon undergo nucleophilic addition.
8. Give the qualitative test for alcohols.
9. Write about Cannizzaro reaction.

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

1. Define hybridization.
2. give the structure and use of
 - a) Dichloromethane
 - b) Amphetamine
3. Define Saytzeff's rule.
4. Define Isomerism.
5. Give the structure and use of
 - a) Chloral hydrate
 - b) Acetone
6. What is Inductive effect?
7. Define hydrolysis and condensation with example.
8. Give the IUPAC name for
 - a) $CH_3OCH_2CH_3$
 - b) $CH_3CH_2CH(CH_3)CN$
9. Write the structured formula for the following
 - a) 2-propanone
 - b) Chloro-2-methylpropane
10. Write the structure and use of
 - a) Methylsalicylate
 - b) Benzylbenzoate
