

(LP 2016)

SEPTEMBER 2019

Sub. Code: 2016

B.PHARM. 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. Explain the mechanism, reactivity and kinetics of SN_1 reaction.
2. Explain Perkin condensation with mechanism and examples.
3. Explain the mechanism of free radical addition reaction of alkenes with examples.

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

1. Explain the basicity of amines.
2. Halogenation of alkanes.
3. Ozonolysis.
4. Explain Saytzeffs rule with examples.
5. Explain the mechanism of cannizaro reaction with examples.
6. E_1 versus E_2 .
7. Describe in detail about electrophilles and nucleophilles with examples.
8. Differentiate between primary, secondary, tertiary amines.
9. Explain about hybridization. Describe the molecular orbital structure of ethane.

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

1. Define and classify alcohols.
2. Define hydrogen bonding with one example.
3. Structure and use of ethylene diamine.
4. 1, 4 addition of conjugated dienes.
5. Why aniline is less basic than ammonia?
6. Structure and use of vanillin and propylene glycol.
7. Qualitative test for amides.
8. IUPAC name of $HO - CH_2 - CH_2 - CH_2 - COOH$.
9. Medicinal uses and structure of Lactic acid and amphetamine.
10. General test to identify acetone and benzyl alcohol.
