

(LQ 2016)

MARCH 2020

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. Discuss Sp<sup>2</sup> hybridization in alkenes.
2. a) Give the method of preparation of Carboxylic acid.  
b) Acidity of carboxylic acid.
3. a) How will you distinguish primary, secondary and tertiary amines?  
b) Discuss the basicity of amines.

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

1. How are aldehydes prepared? Give their important reactions.
2. Give the method of preparation on allyl halide.
3. Give some important reactions of alcohols.
4. Write about the effect of substituent on acidity of carboxylic acid.
5. Write a note on benzoin condensation.
6. Explain SN<sup>1</sup> reaction.
7. Write about IUPAC rules for naming cycloalkanes.
8. Write a note on Peroxide effect.
9. Write about conjugated dienes.

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

1. Define ozonolysis.
2. How will you distinguish 1-butyne and 2 butyne?
3. Give the structure and uses of chloroform.
4. Write the structure and use of: a) Cetosteryl alcohol b) Glycerol.
5. Define Cannizzaro reaction.
6. Give the structure and use of: a) Hexamine b) Vanillin.
7. Define inductive effect.
8. What happens when methane is treated with Iodine in presence of an oxidizing agent HIO<sub>3</sub>?
9. Write the structure of the following: a) 1-methyl pentene b) 2-ethyl butane.
10. Define Isomerism.

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