

CODE NO: 1170
FACULTY
B. Pharmacy 2/4 I Semester (Suppl) Examination, April 2018
Subject: Pharmaceutical Organic Chemistry I
Time: 3 Hrs
Max. Marks: 70
Note: Answer All Questions. All Questions carry Equal Marks.

1. a) What is Hybridization? Discuss sp^1 , sp^2 and sp^3 Hybridization with suitable examples 8
 b) Write a note on Electrometatic effect and polarity of molecules 3+3

OR

 c) What is activation energy. Explain the energy diagram of reactants and products during reaction 1+7
 d) Explain the terms with examples chirality and Hydrogen bonding

- 2) a) Define the terms configuration and conformation. Write the various conformations of cyclohexane and discuss their stability. 10
 b) Add a note on peroxide effect. 4

OR

 c) Explain the Markovnikov's and anti-Markovnikov's addition with examples 7
 d) Write the general methods to prepare the alkenes.

- 3) a) Discuss in detail the mechanism and stereochemistry involved in SN^1 and SN^2 reaction 14

OR

 b) Add a note on Ziegler method or Williamson synthesis 6
 c) How do you distinguish between primary, secondary and tertiary alcohols with different chemical reagents. 8

- 4) a) Explain in detail the acidity of carboxylic acids with examples. 7
 b) Write any two methods for preparation of aldehydes and Ketones. 7

OR

 c) How do you synthesize the Schiff's bases 6
 d) Discuss any two Hydrophilic addition reactions of carbonyl compounds with mechanisms 8

- 5) a) Write any two methods to synthesize secondary amines 6
 b) Give the mechanism for any two of the following reactions 8
 - 1) Sandmeyer reaction
 - 2) Cplin reaction
 - 3) Attermann reaction

OR

 c) Give reactions of amines. 7
 d) Write the synthesis and applications of aryl diazonium salts. 7
