

Code No. 7207 / S

FACULTY OF PHARMACY**B. Pharmacy II-Year I-Semester (Supplementary) Examination, March 2014****Subject : Pharmaceutical Organic Chemistry - I****Time : 3 Hours****Max. Marks: 70****Note: Answer All questions. All questions carry equal marks.**

- 1 (a) (i) Explain the energy diagrams of reactants and products. (8)
(ii) Write about covalent bond and resonances. (3+3)
- OR**
- (b) Explain the following terms with examples. (4x3.5)
(i) Inductive effect (ii) Hybrid orbital
(iii) Dipole movement (iv) Hydrogen bonding
- 2 (a) Write the reaction and mechanism of following reactions. (4x3.5)
(i) Catalytic reduction (ii) Markonikovs addition
(iii) Halogenation of alkanes (iv) Allylic substitution
- OR**
- (b) (i) Write any three methods of preparation of alkanes. (7)
(ii) Explain stability of conjugated alkadienes. (7)
- 3 (a) (i) Give any three methods of preparation of alcohols. (7)
(ii) Explain in detail of SN^1 reaction with mechanism. (7)
- OR**
- (b) (i) Give a note on Sayetzeff's rule and Walden inversion. (3+4)
(ii) Write different methods for synthesis of ethers. (7)
- 4 (a) (i) Write any three methods for synthesis of aldehydes. (7)
(ii) Give the synthetic applications of malomic ester. (6)
- OR**
- (b) (i) Explain relative acidity of different carboxylic acids. (6)
(ii) Write synthesis of following: (4x2)
(A) Esters (B) Amides (C) Acid halides (D) anhydrides
- 5 (a) (i) How to separate a mixture of amines by different methods. (8)
(ii) Give any three methods for synthesis of nitro alkanes. (6)
- OR**
- (b) (i) Write any three methods for synthesis of any diazonium salt. (8)
(ii) Give a note on basicity of amines by taking examples. (6)
