

Roll No

PY-114**B.Pharm., I Year II Semester**

Examination, June 2016

Choice Based Credit System (CBCS)**Pharmaceutical Chemistry - II****(Organic Chemistry)****Time : Three Hours****Maximum Marks: 60**

Note: i) Attempt any five questions.
 ii) All questions carry equal marks.

1. a) Classify organic reactions with suitable examples.
 b) What are free radicals? Discuss their formation, reactivity and stability.
2. a) Define Isomerism. Give the classification of stereoisomers. How racemic mixture resolved?
 b) Define Chirality. Discuss R and S configuration with the help Cahn Ingold Prelog System of nomenclature.
3. a) What are Carbonations? Discuss their generation, stability and chemical properties.
 b) What are Nitrenes? Discuss their generation, stability and chemical properties.
4. a) Compare and contrast E1 and E2 reaction mechanism in detail.
 b) What are Carbanions? Discuss their generation, stability and chemical properties.

5. a) Discuss methods of preparation and reaction of alcohols.
 b) Discuss methods of preparation and reactions of aldehyde and ketone.
6. a) Discuss mechanism, stereochemical aspects and reactivity of SN1 and SN2 reaction with suitable example.
 b) Discuss with suitable examples reaction of carbonyl compounds.
7. Write notes on any three of the following :
 a) Concerted and step wise reaction
 b) Dehydrohalogenation of alkyl halides
 c) Role and polarity of solvent in organic reactions
 d) Optical activity
 e) Electrophile and Nucleophile
