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Roll No

PY-114

B.Pharmacy, II Semester (Non-PCI Scheme)

Examination, June 2017

Choice Based Credit System (CBCS)

Pharmaceutical Chemistry - II (Organic Chemistry - I)

Time: Three Hours

Maximum Marks: 60

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Note: i) Attempt any five questions.

ii) All questions carry equal marks.

- Classify organic reactions giving examples.
 - Exemplify electrophiles and nucleophiles.
 - Define aromaticity and discuss conditions for aromaticity.
- What are carbenes and nitrenes? How are they prepared? Discuss their synthetic utility.
 - b) Explain generation of free radicals. Discuss their stability and reactions.

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- Define relative and absolute configuration giving examples.
 - Discuss Cahn Ingold prelog system of nomenclature.
- Define enantiomers and diastereomers. Differentiate between them giving examples.
 - What do you understand by the term asymmetric synthesis? Discuss partial and absolute asymmetric synthesis.

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- Explain how phenols are more acidic than alcohols and exhibit entirely different chemical reactivity than alcohols. Support your answer with suitable examples.
 - What are carbonyl compounds? Discuss nucleophilic addition reactions exhibited by them.
- Discuss synthesis and nucleophilic substitution reactions of esters and amides.
 - Explain role of solvent in S_N1 Vs S_N2 reactions.
- Exemplify E1 and E2 reactions. Discuss conditions for substitution Vs elimination reactions.
 - Discuss generation of carbocations and carbanions and their stability.

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- Explain reactions involving carbanions.
 - Show how ethers differ from alcohols in their physical and chemical properties.

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