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**BP-202 T** 

## **B.Pharm.**, II Semester (PCI Scheme)

Examination, June 2017

## Choice Based Credit System (CBCS) Pharmaceutical Organic Chemistry - I

Time: Three Hours

Maximum Marks: 60

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- Classify organic compounds giving examples.
  - b) Discuss common and IUPAC system of Nomenclature in aliphatic and aromatic carboxylic acids.
- 2. a) Write a note on structural isomerism in organic compounds giving suitable examples.
  - b) Discuss Sp<sup>3</sup> and Sp<sup>2</sup> hybridization in alkanes and alkenes and its impact.
- Discuss reaction mechanism of free radical substitution in alkanes.
  - b) Give laboratory method of preparation of alkanes and alkenes. www.rgpvonline.com

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- 4. 4) Discuss free radical and electrophilic addition reactions of conjugated dienes.
  - b) Explain Markovnikov's and Anti-Markovnikov's orientation in addition reactions in alkenes.
- 5. a) Discuss S<sub>N</sub>1 Vs S<sub>N</sub>2 reactions in alkyl halides and stereochemistry involved.
  - b) Give qualitative tests, structures and uses of glycerol, cetostearyl alcohol and propylene glycol.
- 6. a) Give laboratory method of preparation of aldehydes and ketones. Discuss their nucleophilic addition reactions.
  - b) Discuss basicity and effect of substituents on basicity of amines.
- 7. a) Explain effect of substituents on acidity of carboxylic acids. Give qualitative tests for carboxylic acids, amides and esters.
  - Write structures and uses of salicylic acid, benzyl benzoate, methyl salicylate and acetyl salicylic acid.

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