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SEAT No. :

P3969

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[5246]-104

M. Pharmacy (Semester - I)

ADVANCED PHARMACEUTICAL CHEMISTRY

(2013 Pattern)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidate :

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

Q1) Define isomers, enantiomers and tautomers. Explain the concept of asymmetric synthesis with examples. Discuss the methods for resolution of racemic mixtures. [10]

Q2) Solve any three [15]

- a) Ionic liquids have a number of advantages over volatile organic solvents. Justify the statement giving suitable examples.
- b) Explain any two multi component reactions in detail.
- c) Enlist the various name reactions dealing with oxidation of organic compounds. Explain any one including mechanism, stereochemistry and applications.
- d) Write a note on supported reagents and catalysts in Green chemistry.

Q3) Write short notes on any three: [15]

- a) Pinacol-Pinacolone rearrangement.
- b) Free radical reactions.
- c) Wittig reaction.
- d) Beckmann rearrangement.

Q4) What are the objectives of effluent treatment? Explain the various methods used for treatment of industrial effluents. [10]

OR

Which are the various transforms used in synthon approach? Discuss the rules of disconnection in synthon approach with examples.

