

# FirstRanker.com Firstranker!s choice Rajiv Gandhiwwnfivs@sokeyconf Healthw Steilenwesom First Year M.Pharm Degree Examination - May 2011

[Time: 3 Hours] [Max. Marks: 100]

## ADVANCED PHARMACEUTICAL CHEMISTRY (ORG.)

#### PAPER II

(Revised Scheme 2)

Q.P. CODE: 9232

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Answer all questions

## LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- Discuss the mechanisms involved in nucleophilic aromatic substitution reactions with suitable examples
- Write about the phase transfer catalysis in anhydrides, epoxide, ester and reduction reactions. 2.
- 3. Classify rearrangement reactions with suitable examples. Explain any three rearrangement reaction with their mechanisms.

### SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- Write an account of formation and reactions of free radicals. 4
- 5. Give an account of Homogenous and Heterogenous catalysis
- Write about combinatorial libraries in solution.
- 7. Discuss the pericyclic reactions giving emphasis on sigmatropic rearrangement.
- Explain the formation, structure and reactions of Carbenes. 8.
- 9. Discuss the mechanism involved in Cannizzaro reaction and Aldol condensation by giving suitable examples.

SHORT NOTES 2 X 5 = 10 Marks

- Conversion of pyrrole to pyridine.
- Macro-Beads in new solid phase synthesis. 11.