

# FirstRanker.com 9232\_2011\_2 Firstranker!s choice Rajiv Gandhiw Marins Project Health Sciences on First Year M.Pharm Degree Examination - Nov 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

- a) Write in detail about the formation, structure, reaction involving carbocations
  - b) Discuss about aromatic nucleophilic reaction involved cyclohexadienyl anions
- a) Discuss in detail, taking suitable examples the important rearrangement reaction involving 2. carbon-nitrogen migration.
  - b) Discuss the mechanism involved in Hoffmann rearrangement
- a) Explain the mechanism and reactivity of addition reaction to carbon multiple bonds. 3.
  - b) Write a note on delocalized chemical bonding.

### SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- Write generation, stability structure and fact of carbonium ion. 4.
- 5. Discuss the mechanism and synthetic importance of the following reformatsky reaction.
- 6. Give the appreciation of combinational chemistry.
- 7. What are the various approaches for deprotection of groups.
- 8. Explain the utility of phase - transfer catalysts
- Discuss Homolytic and heterolytic bond fissions, considering suitable examples 9.

SHORT NOTES 2 X 5 = 10 Marks

- Discuss the mechanism involved in reamer tiemen reaction
- Aldol condensation 11.

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