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[Max. Marks: 100]

Rajiv Gandhinenniversitey of Health Sciences

First Year M.Pharm Degree Examination - October 2010

[Time: 3 Hours]

## 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)

- a) Explain in detail with mechanism about pinacol-pinacolone rearrangement.
  b) what do you mean by cine substitution? Discuss the mechanism involved with suitable examples.
- 2. a) Define free radical. Explain in detail the formation of free radical. Explain in detail reaction involving free radicals.
  - b) Discuss the mechanism involved in Benzoin condensation and perkin reaction.
- 3. a) Give an account of ring expansion with appropriate examples
- b) Discuss the Mechanism of Hoffmann rearrangement with suitable examples.

#### SHORT ESSAY (Answer any FIVE)

- 4. Write about trans annular rearrangements with suitable examples.
- 5. What are nitrenes? Discuss the mechanism involved in curtius reaction schmdt & lossen rearrangement.
- 6. Discuss the principle involved in phase transfer catalysis with appropriate example
- 7. What do you mean by sigmatropic rearrangement the synthetic applications of sigmatropic rearrangement.
- 8. Discuss the mechanism involved diels alder reaction using molecular orbital method
- 9. Write a note on combinatorial chemistry

#### SHORT NOTES

- 10. Discuss the formation structure and stability of Carbocations.
- 11. Free radicals.

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#### 2 X 20 = 40 Marks

## 5 X 10 = 50 Marks

#### 2 X 5 = 10 Marks



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