



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.

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

1. Write an account of formation, stability and reactions of enzyme catalysis in the manufacture of drugs.
2. a) Explain about various reactions, which involve nitrenes.
b) Give the mechanism with examples of Diel's Alder and Sommelet – Hauser reactions.
3. a) Discuss different solid-phase methods in combinatorial chemistry.
b) Discuss the various reactive intermediates produced in organic synthesis with one example each.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Explain about aromatic nucleophilic reactions.
5. Give mechanisms of Wolff rearrangement and Cannizzaro reaction.
6. Explain phase transfer catalysis in anhydride and ester hydrolysis reactions.
7. Explain the applications of macro beads in New Solid Phase synthesis.
8. Explain about the Aldol condensation and Cope's rearrangement by giving examples.
9. Write about various applications of Pericyclic reactions.

SHORT NOTES

2 X 5 = 10 Marks

10. Advantages of combinatorial chemistry
11. Mechanism of Pinacol-Pinacolone rearrangement

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