

FirstRanker.com 9232_2012_1 Firstranker!s choise Rajiv Gandhiwwnivsensoiteycoof Healthy Scientoesom First Year M.Pharm Degree Examination - May 2012

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

ADVANCED PHARMACEUTICAL CHEMISTRY (ORG.)

PAPER II

(RS2 and RS3)

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) Give an account of combinatorial chemistry with special reference to its application in drug discovery.
 - b) Define catalysis. Explain the importance of homogenous catalysis in the manufacture of drugs.
- 2. Explain the following reaction mechanisms and the application in synthesis.
 - (a) Perkin condensation (b) Hoffmann rearrangement.
- 3. Outline the mechanism and discuss the synthetic importance of the following
 - (a) Wagner Meerwein(b) Reimer Tiemen reaction.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- Explain with examples various pericyclic reactions
- 5. Give an account of macro beads in new solid phase synthesis.
- 6. Explain sigmatropic rearrangement. Explain the mechanism involved in sommelet rearrangement
- 7. Discuss the mechanism of Diel's Alder reaction and explain its significance in pharma chemistry.
- 8. Give an account of addition reactions at carbon-carbon multiple bonds.
- 9. Discuss the neighboring group assistance in free radical reaction.

SHORT NOTES 2 X 5 = 10 Marks

- Cope rearrangement.
- Wolff rearrangement. 11.

* * * * *