www.FirstRanker.com

Advanced Pharmaceutical Chemistry

(Revised Scheme 4)

Q.P. CODE: 9346

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

LONG ESSAY (Answer any TWO)

- What are free radicals? Explain the structure, generation, stability and reaction involving free 1. radicals.
- 2. Add note on protection and deprotection of hydroxyl and amine groups.
- 3. Write in detail with examples of homogenous and heterogenous catalysis.

SHORT ESSAY (Answer any FIVE)

- 4. What is Benzyne mechanism? Explain the facts supporting the mechanism.
- 5. Give an account of combinatorial chemistry with special reference to parallel organic synthesis.
- 6. Discuss the principle and various techniques in green chemistry.
- 7. Give the mechanism and applications of pinacol-pinacolone rearrangement.
- 8. Discuss the following with relevant examples: - (a) Perkin's reaction, (b) Benzoin condensation.
- 9. Explain synthon approaches in synthesis of trimethoprim and ciprofloxacin.

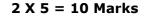
SHORT NOTES

- 10. Phase transfer catalysis
- 11. Aldol condensation

 $2 \times 20 = 40 \text{ Marks}$

5 X 10 = 50 Marks

First Year M. Pharm Degree Examination - Oct/Nov 2014 [Max. Marks: 100]





[Time: 3 Hours]

FirstRanker.com FirstraRajata Gandhi University o