www.FirstRanker.com

upload be0d35c09a2ad5a95f90800791981d88.doc

FirstRanker.com Kajiv Gandhiwwniivensiteycorf Health Scirenceson

First Year M.Pharm Degree Examination - <<>>

[Time: 3 Hours]

ADVANCED ORGANIC CHEMISTRY

(RS 2 & RS 3)

Q.P. CODE: 9202

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

LONG ESSAY (Answer any TWO)

- 1. a) Discuss the mechanism of different types of rearrangement reactions taking one example each
 - b) Add a note on resonance theory of Benzene
- 2. Write down the mechanism, reaction and synthetic applications for the followings:
 - a) Friedel craft reaction
 - b) Grignard reaction
 - c) Reformatsky reaction
 - d) Oppeneaur oxidation
- 3. a) Give a detailed account of mechanism and stereochemistry of E1 and E2 reaction with particular reference to aliphatic and alicyclic compounds.
 - b) Add a note on free radical polymerization of alkenes

SHORT ESSAY (Answer any FIVE)

- Write a note on concept of retrosynthetic analysis of drugs and its applications 4.
- Write the technique involved in preparing chiral drug. Explain with suitable example 5.
- Give an important synthetic method for preparing pyrimidine. Mention the physiological 6. importance of derivative of pyrimidine 🕜
- 7. What are antihistamines? Give the synthesis, medicinal value of any three antihistaminic drugs.
- Write the mechanism of 8.
 - a) Backmann rearrangement
 - b) Wagner-Meerwein rearrangement
- 9. Write down synthesis and synthetic utility of malonic ester

SHORT NOTES

- 10. Explain bonding and antibonding
- 11. Explain Jacobsen epoxidation

* * * * *

5 X 10 = 50 Marks

2 X 5 = 10 Marks

2 X 20 = 40 Marks

[Max. Marks: 100]