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Rajiv Gandhiwwnfivensiteyconf Health Scienceson

First Year M.Pharm Degree Examination - October 2010

[Time: 3 Hours]

ADVANCED ORGANIC CHEMISTRY

(Revised Scheme 2)

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. Discuss in detail the formation, stability, reactions and synthetic applications of carbonium ions
- 2. Give the preparation and applications of aceto acetic and malonic ester
- 3. Write the synthesis, of: a) Quinazoline b) Pyrazole c) Oxazole d) Benz-Imidazole. Draw the structures of two drugs each belonging to this class

SHORT ESSAY (Answer any FIVE)

- 4. Discuss the kinetic energy and mechanism of substitution reaction (SN₂ and SN₁)
- 5. List the commonly used reducing agents. Discuss the mechanism and applications of any one of them
- 6. Discuss pharmacologically important benzodiazepines giving the synthesis of any one of them
- 7. Give the mechanism of a) Pinacol-pinacolone rearrangement b) Allylic rearrangement
- 8. Discuss the mechanism of a) Claisen condensation b) Aldol condensation
- 9. Give the synthetic routes for 1, 2, 4 triazole and phenothiazine

SHORT NOTES

- 10. Microwave assisted organic synthesis Vs thermal methods of organic synthesis
- 11. Stereochemistry of carbohydrates

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2 X 20 = 40 Marks s of carbonium ions

5 X 10 = 50 Marks

2 X 5 = 10 Marks

H CN)

[Max. Marks: 100]

