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Rajiv Gandhi University of Health Sciences, Karnataka First Year M. Pharm Degree Examination – Oct/Nov 2014

Time: Three Hours

Max. Marks: 100 Marks

ADVANCED PHARMACEUTICAL CHEMISTRY

(Revised Scheme 4)

Q.P. CODE: 9352

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

LONG ESSAYS (Answer any Two)

- 1. With suitable name reactions discuss the mechanism involved in Condensation, Rearrangement and oxidation-reduction reactions
- 2. Discuss in detail the formation, stability, structure of carbenes and Arenas. Add a note on microwave irradiation techniques with its advantages and limitations
- ³ Outline the synthetic routes and medicinally important compounds belongs to the following heterocycles (i) Furan (ii) Benzimidazole (iii) Isoxazole (iv) Phenothiazines and (v) Triazole.

SHORT ESSAYS (Answer any FIVE)

- 4. With suitable examples explain the mechanism of substitution and addition reactions.
- 5. What are Nitrenes? Explain the structure and reactions involving nitrenes.
- 6. Discuss the various methods involved in the synthesis of thiophenes and quinoline.
- 7. Write an account of the properties of enatiomers. Describe the methods available for resolution of recemic compounds.
- 8. Discuss the preparation and synthetic applications of aceto acetate and Malonic ester.
- 9. Explain Geometrical Isomerism and Optical Isomerism with examples.

SHORT NOTES

- 10. Stereo Chemistry of Steroids.
- 11. What do you understand by resonance effect and inductive effect?

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5 x 10 = 50 Marks

 $2 \times 5 = 10$ Marks

2 x 20 = 40 Marks