

First Year M.Pharm Degree Examination - Oct/Nov 2014

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

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)

2 X 20 = 40 Marks

- a) What are Carbonium ion? Write the reaction which they generated. Explain the stability of carbonium ion with suitable example.
- 2. a) Describe the preparation and synthetic application of malonic ester
 - b) Explain the types of pericyclic reaction with examples.
- 3. Give one Synthesis and an example of active medicinal agent belonging to the following Heterocylyic ring system
 - a) Furan b) Thiazoles c) Phenothiazine d) Pyridine

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Give the synthetic route for quinozoline & quinoline.
- 5. Explain the mechanism of applications of a) Aldol condension b) Claisen Condensation.
- 6. Describe different type of chemical bonds and their properties
- 7. Outline the mechanism of Hoffmann's rearrangement reaction and its application.
- 8. What is Grighnord reagent? Write mechanism of reaction involving grighard reagent and its Synethetic application.
- 9. Expalin the mechanism and orientation of elimination reactions.

SHORT NOTES 2 X 5 = 10 Marks

- 10. Hydrogen bonding
- 11. Friedal craft reaction

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