

[LA 344]

MAY 2012

Sub. Code: 2905

M.PHARM. DEGREE EXAMINATION

FIRST YEAR

BRANCH II – PHARMACEUTICAL CHEMISTRY

PAPER II – ADVANCED ORGANIC CHEMISTRY

Q.P. Code: 262905

Time: 3 hours
(180 Min)

Maximum: 100 marks

Answer ALL questions in the same order.

I. Elaborate on:

| Pages (Max.) | Time (Max.) | Marks (Max.) |
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|-----------------|----------------|-----------------|

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|--|----|----|----|
| 1. a. What are reaction intermediates? Explain the reaction mechanisms involving any two of them. | 17 | 40 | 20 |
| b. Write a note on Retro synthetic analysis. | | | |
| 2. a. What is elimination reaction? Explain the mechanisms of E1 Reaction? | | | |
| b. Enumerate the Stereo chemical aspects of SN1, SN2 reaction. | 17 | 40 | 20 |

II. Write notes on:

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|--|---|----|---|
| 1. Hoffman rearrangement reaction. | 4 | 10 | 6 |
| 2. Oppenauer oxidation. | 4 | 10 | 6 |
| 3. Application of photochemical reaction. | 4 | 10 | 6 |
| 4. Catalyst involved in reduction reaction. | 4 | 10 | 6 |
| 5. Disconnection approach. | 4 | 10 | 6 |
| 6. Chemistry of phenothiazine. | 4 | 10 | 6 |
| 7. Importance of chiral in the synthesis of medicinal compounds. | 4 | 10 | 6 |
| 8. Bifunctional components. | 4 | 10 | 6 |
| 9. Synthesis of indole. | 4 | 10 | 6 |
| 10. Electro cyclic reaction. | 4 | 10 | 6 |
