

[LB 817]

OCTOBER 2012

Sub. Code: 3817

**DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION****THIRD YEAR****PAPER V – MEDICINAL CHEMISTRY***Q.P. Code: 383817***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order****I. Elaborate on :****Pages Time Marks  
(Max.) (Max.) (Max.)**

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|---|----|---------|----|
| 1. Write the classification of Antineoplastic agents and explain in detail their chemistry with suitable examples along with mechanism of action. Synthesize any two drugs under various classes. | 17 | 40 min. | 20 |
| 2. Classify cardiovascular agents.<br>Discuss on antihyperensives and antiarrythmics in detail.   | 17 | 40 min. | 20 |

**II. Write notes on:**

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|---|---|---------|---|
| 1. Write the chemistry, structures and synthesis of any one drug under the category of anthelmintics. | 4 | 10 min. | 6 |
| 2. Discuss on oral hypoglycemic agents.   | 4 | 10 min. | 6 |
| 3. Brief out on computer aided drug design.   | 4 | 10 min. | 6 |
| 4. Classify broad spectrum pencillins and write the mechanism of action.                              | 4 | 10 min. | 6 |
| 5. Brief out on prodrugs and their applications.  | 4 | 10 min. | 6 |
| 6. Write on thiazides and osmotic diuretics.  | 4 | 10 min. | 6 |
| 7. Give a short account on anti thyroid hormones.   | 4 | 10 min. | 6 |
| 8. Write on the electronic, lipophilic and steric parameters.   | 4 | 10 min. | 6 |
| 9. What is the concept of antisense molecules?  | 4 | 10 min. | 6 |
| 10. Discuss on macrolides.  | 4 | 10 min. | 6 |

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