

[LA 817]

APRIL 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 (Max.)	Time (Max.)	Marks (Max.)
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| 1. Write the classification of Antibiotics and explain in detail the chemistry of Pencillins with mechanism of action and examples. Explain on Macrolides and Aminoglycosides. | 17 | 40 min. | 20 |
| 2. Discuss on Quantitative structure activity relationship with a note on various parameters. Write on the concept of antisense molecules. | 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 antifungal agents. | 4 | 10 min. | 6 |
| 2. Discuss on oral hypoglycemic agents. | 4 | 10 min. | 6 |
| 3. Brief out on thiazides and loop diuretics. | 4 | 10 min. | 6 |
| 4. Write on Mechanism of action, toxicity and uses of Sulphonamides. | 4 | 10 min. | 6 |
| 5. Brief out on combinatorial chemistry. | 4 | 10 min. | 6 |
| 6. Classify 1 st line and 2 nd line anti tubercular agents along with structures from various classes. | 4 | 10 min. | 6 |
| 7. Give a short account on steroidal sex hormones. | 4 | 10 min. | 6 |
| 8. Write on calcium channel blockers. | 4 | 10 min. | 6 |
| 9. Discuss on angiotensin converting enzyme inhibitors and aldosterone inhibitors as antihypertensives. | 4 | 10 min. | 6 |
| 10. Write on the prodrug concept and its applications. | 4 | 10 min. | 6 |
