

[LF 817]

OCTOBER 2014

Sub. Code: 3817

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**(2009-2010 Regulation)****THIRD YEAR****PAPER V – MEDICINAL CHEMISTRY*****Q.P. Code: 383817*****Time: Three Hours****Maximum: 70 marks****Answer All questions****I. Elaborate on:****(4 x 10 = 40)**

1. Explain the medicinal chemistry aspects of antihypertensive agents with emphasis to classification and mechanism of action of each class.
2. Enumerate various approaches utilized in computer aided drug design.
3. Discuss the chemistry, mechanism of action, SAR and synthesis of chloramphenicol.
4. Write a note on urinary tract anti-infectives and enumerate the synthesis of any one.

II. Write notes on:**(6 x 5 = 30)**

1. Write a note on antimetabolites used in anticancer therapy.
2. Classify oral hypoglycaemic agents and enumerate the synthesis of any one.
3. Discuss the structural types of quinolone urinary tract anti-infectives and write the structure any one fluoro quinolone.
4. Write a note on estrogens and non steroidal estrogens.
5. Explain briefly on lipophilic parameters in quantitative structure activity relationship.
6. Give the structure and uses of
 - (a) Acetazolamide
 - (b) Pyrimethamine
