

[LG 817]

APRIL 2015

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. Classify diuretics.

Explain the mechanism of action and structure of any one drug from each class.

2. Write a brief account on the electronic &amp; steric parameters involved in a QSAR study.

3. Classify semisynthetic penicillins.

Enumerate the mechanism of action and SAR of penicillins.

4. a) Classify sulphonamides.

Briefly discuss the mechanism of action and SAR of sulphonamides.

b) Enumerate the general synthesis of sulfonamides.

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

1. Discuss the life cycle of malarial parasite.

2. Describe the mechanism of action of

(a) Polyene antifungals (b) Allylamine antifungals.

3. Write a note on solid phase synthesis in combinatorial chemical library synthesis.

4. Discuss briefly on agents used for hyperthyroidism and write the structure of any two drugs.

5. Write a note on adrenocorticoids.

6. Give the structure and uses of

(a) Chloroquine (b) Clonidine.

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