

Third Year Pharm D Degree Supplementary Examinations - April 2014

**Medicinal Chemistry****Time: 3 Hours****Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays****(3x10=30)**

1. Classify sulfonamides with examples. Explain crystalluria and mention the synthesis of dapsona.
2. Enumerate the different classes of drugs acting on cardiovascular system with suitable examples. Explain vasodilators with suitable examples and synthesis of one vasodilator.
3. Define and classify antibiotics with examples. Add a note on SAR of amino glycoside and tetracycline antibiotics.

**Short notes****(8x5=40)**

4. Classify steroidal hormones. Explain the chemistry of steroids used as oral contraceptives.
5. Explain mechanism of action of loop diuretics. Mention the synthetic route for furosemide.
6. What are the factors to be considered for the development of new drug and explain Hansch analysis.
7. Discuss the chemistry and mechanism of action of urinary tract anti infective agents. Mention the synthetic route for any one of them.
8. Describe the chemistry and MOA of oral hypoglycemic agents with examples. Discuss the synthetic route for tolbutamide.
9. Synthesis, MOA and uses for metronidazole & ethambutol
10. What are anti neoplastic agents. Explain the concept of anti metabolites used in cancer chemotherapy and mention its advantages over other anti neoplastic agents with examples.
11. Distinguish between antiseptic and disinfectant. Mention two examples and its structure. Add a note on cationic surfactants.

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