QP CODE:305326

Time: 3 Hours

Reg.No:

Third Year Pharm D Degree Supplementary Examinations - March 2015

Medicinal Chemistry

Answer all Questions.

• Draw Diagrams wherever necessary.

Essays

- 1. What do you understand about QSAR. Discuss its advantages, limitations and pitfalls with suitable examples.
- What are anti neoplastic agents. Explain salient structural features involved in different classes of anti neoplastic agents and mechanism of action of alkylating agents.
- 3. Classify anti hypertensive agents with examples. Discuss its SAR and mechanism of action.

Short notes

- 4. Synthesis and clinical uses of one drug each from the following categories:
 - Folate reductase inhibitors Sulfonylureas
- 5. What are pro drugs and how they are designed. Explain the importance of pro drug concept in optimizing the pharmacokinetic parameters of a drug.
- 6. What are antibiotics. Add a note on chemistry and degradation of beta lactam antibiotics.
- 7. Explain preservatives and antifungal agents.
- 8. SAR of sulfonamides and mention the synthetic route for sulphamethoxazole.
- 9. What is the mechanism of smooth muscle relaxation. Discuss the mechanism of action of calcium channel blockers by taking two examples with structure and clinical uses.
- 10. Narrate the structure of any four anti ameobic drugs and mention the synthesis for metronidazole.
- 11. Structure, mechanism of action and uses of the following:
 - Acetazolamide
 Chloramphenicol
 Choroquine
 Urotropin

(3x10=30)

Total Marks: 70

(8x5=40)