2010 scheme

QP CODE:401006 (old scheme) **Reg. No: ……..**

Final Year B.Pharm Degree Supplementary Examinations October 2019
Pharmaceutical Chemistry - V
(Medicinal Chemistry)

Time: 3 Hours **Total Marks: 100**

- Answer all Questions.
- Draw chemical structure wherever necessary.

Essays **(3x10=30)**

1. Outline the synthesis of the following drugs - metronidazole and diphenhydramine
2. Classify the different antipsychotics. Give the mechanism of action of chlorpromazine and outline its synthesis.
3. What are pro drugs. Explain the different pro drug approach in drug design.

Short notes **(14x5=70)**

4. Explain the term chelation in relation to biological activity.
5. Explain the term molecular modeling.
6. Structure, mechanism of action and uses of ACE inhibitor.
7. What is isosterism. How do different isosters effect biological activity. Give examples.
8. What are loop diuretics. What is the mechanism of action. Give examples.
9. What are nitrogen mustards. What is the mechanism of action. Give examples.
10. Outline the synthesis of tolbutamide.
11. Outline the synthesis of chloramphenicol.
12. Structure, mechanism of action and uses of HMG CoA reductase inhibitors.
13. Synthesis of silver sulphadiazine.
14. Discuss the SAR of the penicillins.
15. Classify the different H_1 receptor antagonists with examples.
16. Structure, mechanism of action and uses of carbonic anhydrase inhibitors.
17. Discuss with two examples how different geometrical isomers affect biological activity.

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