

**QP CODE:305326**

**Reg.No: .....**

Third Year Pharm D Degree Examinations - October 2013

**Medicinal Chemistry**

**Time: 3 Hours**

**Total Marks: 70**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(3x10=30)**

1. Describe the life cycle of malarial parasite. Classify anti malarial agents. Outline the MOA and synthesis of any one of them.
2. Discuss the SAR of anti tubercular drugs. Mention the structure and uses of p- aminosalicylic acid, isoniazid, etambutol and pyrizinamide. Explain the synthesis of INH.
3. Explain the chemistry, mechanism of action and applications of anti coagulants and diagnostic agents

**Short notes**

**(8x5=40)**

4. Explain the importance of computer aided drug design (CADD) and combinatorial chemistry in development of new drug with the help of suitable examples. Add a note on methods of parallel and mixed combinatorial synthesis.
5. Enlist the classes of steroidal hormones and mention its biological significance. Add a note on modern applications of steroids.
6. Classify anti viral agents with examples. Mention the synthesis of any one anti viral agent. Add a note on replication of HIV
7. Synthesis, mechanism of action and uses for one drug each from sulfonylureas and antimetabolites.
8. Discuss the mechanism of action of ACE inhibitors and folate reductase inhibitors.
9. Broad spectrum antibiotics.
10. Historical development and clinical importance of anti protozoal agents by taking examples with its brand names.
11. Classify diuretics. Discuss the chemistry and mechanism of action of high-ceiling diuretics.

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