

**QP CODE: 113331**

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

**First Semester M.Pharm Degree Supplementary Examinations July 2019**

**M.Pharm (Pharmaceutical Chemistry)**

**Paper III – Advanced Medicinal Chemistry (MPC 103T)**

**Time: 3 Hours**

**Total Marks: 75**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(3x10=30)**

1. Explain in detail the concept of prodrug design with relevant examples.
2. The concept of rational design of enzyme inhibitors.
3. Explain in detail the various strategies to combat drug resistance with examples.

**Short Notes**

**(9x5=45)**

4. Strategies in designing anti-cancer drugs.
5. SAR of beta-2 agonists.
6. COX2 inhibitors.
7. Synthesis of any two anti-viral agents.
8. The concept of conformational restraints in peptidomimetics.
9. Anti-hypertensive agents.
10. Give the synthesis of a H<sub>1</sub> antagonist.
11. Chemistry of thromboxanes.
12. Phase-2 metabolism of drugs.

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