

**QP CODE: 113331**

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

**First Semester M.pharm Degree Examinations April 2018**

**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 the theories of drug receptor interaction
2. Explain the role of chirality in selective and specific therapeutics agents.
3. Define antihypertensive agents and classify with suitable examples. Describe the synthesis of propranolol and methyldopa.

**Short Notes**

**(9x5=45)**

4. Chemistry of prostaglandins.
5. Explain the design of stereoisomers and geometrical isomers.
6. Site specific drug delivery.
7. Distinguish between agonists vs antagonists.
8. Briefly explain the genetic principles of drug resistance.
9. Explain the fragments of a lead molecule.
10. COX1 and COX2 inhibitors.
11. Explain the enzyme inhibitors in medicine.
12. Anticonvulsant drugs.

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