

QP Code: 107328

Reg No:

**First Year M.Pharm Degree Examinations August 2017
(Pharmacology)**

Paper III – Recent Advances in Pharmacology

Time: 3 hrs

Maximum Marks: 100

- *Answer all questions*
- *Draw diagrams wherever necessary*

Essays:

(2x20 =40)

1. Discuss in detail about cellular and molecular mechanism of G protein and ion channel receptors. Add a note on GABA receptors and adrenergic receptors.
2. Discuss in detail pathogenesis of destruction of immunity by HIV, and explain the therapy and research of drugs for AIDS.

Short Essays:

(6x10=60)

3. Explain the clinical applications of gene therapy and explain different gene transfer technologies.
4. Enlist the ion channel receptors and explain transduction pathway of Na⁺ and Ca⁺⁺
5. Explain biology of stem cell and its potentials in various disorders.
6. Explain the mechanism of action, adverse effects and therapeutic applications of cyclosporines
7. Discuss: • AMP activated protein kinases • Phosphodiesterases
8. Explain free radicals and antioxidants
