

QP Code: 106328

Reg No:

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

Paper II – Biochemical and Molecular Pharmacology

Time: 3 hrs

Maximum Marks: 100

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

Essays:

(2x20 =40)

1. Explain in detail the various gene transfer mechanisms in the development of drug resistance.
2. Discuss in detail the physiological and pharmacological implications and therapeutic potentials of apoptosis.

Short Essays:

(6x10=60)

3. Describe the role of growth factors in cardiac and vascular remodeling.
4. Write the principle and applications of PCR.
5. Define mutation. Explain the molecular basis of mutation.
6. Explain the biological functions and therapeutic potentials of calcitonin gene related peptide.
7. Discuss the importance of chiral configuration in drug action.
8. Importance of pharmacogenetics and pharmacogenomics.
