

QP Code: 106328

Reg No:

**First Year M.Pharm Degree Examinations August 2016
(Pharmacology)**

Paper II – Biochemical and Molecular Pharmacology

Time: 3 hrs

Maximum Marks: 100

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

Essays:

(2x20 =40)

1. Discuss the arachidonic acid pathway. Explain the role of COX₂ inhibitors in the regulation of inflammation.
2. Explain the principle, application and protocols of rDNA technology.

Short Essays:

(6x10=60)

3. Define neuropeptides with examples. Explain the biological functions and therapeutic potentials of neuropeptide Y.
4. Explain caspase enzyme and enzymes of re-joining
5. Discuss the physiological functions and pathological role of interleukins.
6. What are autoimmune diseases. Explain the pathophysiology of any one neurological disorder.
7. Why chirality of the compounds is important in drug action. Explain with two examples.
8. Discuss northern blot and western blot
