

QP Code: 106328

Reg No:

First Year M.Pharm Degree Examinations – July 2015
(Pharmacology)

Paper II – Biochemical and Molecular Pharmacology

Time: 3 hrs

Maximum Marks: 100

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

Essays: (2x20 =40)

1. Mention the physiological, pharmacological and therapeutic potentials of cytokines and chemokines.
2. Discuss the molecular biology of aging and gene regulation.

Short Essays: (6x10=60)

3. Explain the arachidonic acid metabolites and their role in inflammation.
4. Explain the transgenic animals and application of recombinant technology.
5. Explain briefly about :• Cloning vectors • Cloning of eukaryotic gene
6. Discuss the patho-physiology of cancer and diabetes.
7. Mention the clinical implications of endothelial dysfunctions. Discuss the pharmacology of nitric oxide.
8. Explain basic concepts and clinical potential of chronobiology. Add a note on auto regulation.
