

QP CODE: 114328

Reg. No:.....

First Semester M.pharm Degree Examinations April 2018

M.Pharm (Pharmacology)

Paper IV – Cellular and Molecular Pharmacology (MPL 104T)

Time: 3 Hours

Total Marks: 75

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Discuss the principles and application of flow cytometry.
2. Explain the role of immunotherapeutics in clinical practice
3. Briefly discuss about recent advances in gene therapy

Short Notes

(9x5=45)

4. Gene mapping
5. Differentiate apoptosis from necrosis
6. G-protein coupled receptors
7. Micro array technique
8. Single nucleotide polymorphism
9. Various types of cell culture and culture media
10. ELISA
11. Cyclic AMP signaling pathway
12. Proteomics.
