

QP Code: 107328

Reg No:

First Year M.Pharm Degree Examinations – September 2013

(2011 Scheme)

(Pharmacology)

Paper III – Recent Advances in Pharmacology

Time: 3 hrs

Maximum Marks: 100

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

Essays:

(2x20 =40)

1. Categorize the targets for drug action. Explain in detail about the G-proteins and signal transduction mechanisms
2. Explain in detail about the excitatory and inhibitory transmitters of CNS. Add a note on regulation of neurotransmitter release in CNS

Short Essays:

(6x10=60)

3. Explain about transduction pathway of sodium and calcium ion channels
4. Explain the following target sites • Phosphodiesterases kinases • Rho kinase
5. Explain in detail about the ethical considerations regarding stem cells and human cloning
6. Explain the recent advances in mechanism of anti-microbial resistance
7. Signify the role of free radicals in etiology of cancer and discuss about any one natural antioxidant of your choice
8. Discuss the mechanism of action of the following : • Quinolones • Cephalosporins • Macrolide antibiotics
