

QP Code: 107328

Reg No:

First Year M.Pharm Degree Examinations- February 2013

(2011 Admn- New Scheme)

(Pharmacology)

PaperIII-RecentAdvancesinPharmacology

Time: 3 hrs

Maximum Marks: 100

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

Essays:

(2x20= 40)

1. Explain the molecular mechanism of drug action with respect to drug- receptor interaction, forces binding the drug to receptors, and stereoselectivity of drug action.
2. Explain the recent advancement in mechanism of antimicrobial resistance and chemotherapeutic agents

Short Essays:

(6x10=60)

3. Explain the following receptors:
 - GABA benzodiazepine receptors
 - Adrenergic receptors
4. Explain in detail about the applications of gene therapy .
5. Discuss the ethical issues related to stem cells and human cloning.
6. Describe the cellular signaling systems of G- protein , calcium and calcium binding proteins.
7. Discuss the role of free radicals in etiology of various diseases and mention the role of antioxidants in preventing this.
8. Explain the pharmacological and therapeutic potential of the mentioned target sites:
 - Rho kinases
 - AMP activated protein kinases.
