

QP Code: 107328

Reg No: .....

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

**Paper III – Recent Advances in Pharmacology**

**Time: 3 hrs**

**Maximum Marks: 100**

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

**Essays:**

**(2x20 =40)**

1. Explain in detail about : • GABA and benzodiazepine receptors • Drug receptor interaction • G protein coupled receptors
2. Classify adrenergic, cholinergic and opioid receptors of agonist and antagonist, and explain the molecular level of mechanism of action of acetyl choline.

**Short Essays:**

**(6x10=60)**

3. Explain the mechanism of anti-microbial resistance and recent development in chemo therapy
4. Highlight on regulatory requirements and clinical uses of nutraceuticals
5. Explain phosphoinositide 3 – kinase and AMP activated protein kinases
6. Explain the biology of stem cell and its importance in various disorders
7. Elaborate the recent approaches in drug discovery of AIDS
8. Explain the following:- Immunomodulators of plant origin. Tissue transplantation.

\*\*\*\*\*