

# 2012 Scheme

QP Code: 107328

Reg. No: .....

**First Year M. Pharm Degree Supplementary Examinations  
December 2019**

**(Pharmacology)**

**Paper III – Recent Advances in Pharmacology**

**Time: 3 hrs**

**Maximum Marks: 100**

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

**Essays:**

**(2x20 =40)**

1. Discuss the biology of stem cell and its therapeutic potential.
2. Explain various gene transfer techniques. Add a note on disease targets for gene therapy

**Short Essays:**

**(6x10=60)**

3. Define and classify receptor. Discuss the pharmacology of GABA receptor.
4. Discuss the physiological functions, pharmacological implications and therapeutic potentials of AMP activated protein kinases.
5. Different aspects of genetic counseling
6. Describe elaborately on the concept, regulatory requirements and clinical uses of nutraceuticals.
7. Discuss the role of free radicals and its scavengers in disease status.
8. Discuss various receptor theories in detail

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