

**QP Code: 107328**

**Reg No: .....**

**First Year M.Pharm Degree Supplementary Examinations– March 2015**

**(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. What are p glycoproteins. Explain its transport mechanism. How it involves in the development of antimicrobial resistance and add a notes on immunomodulators
2. Differentiate passive and active immunity. What is humoral and cell mediated immunity. Explain the role of complement system in immune response.

**Short Essays:**

**(6x10=60)**

3. Explain different types of antagonism with example.
4. What are GPCR. Explain the signal transduction mechanism in GPCR.
5. What are Fc receptors. Mention its sub families with specific immunoglobulins. State its clinical importance.
6. Discuss the rational drug uses
7. Explain the physiological functions and therapeutic uses of PARP enzyme.
8. Explain the pharmacokinetic aspects of protein drugs.

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