

**M.B.B.S. [2<sup>nd</sup> Prof.]**

BF/2015/11

**Pharmacology - A**

M.M. : 40

Time : 3 Hours

Note : Attempt all questions.

**USE SEPARATE ANSWER SHEET FOR EACH PART.****PART - I**

1.     a.     G-protein coupled receptors and their signal transduction mechanism. [3]  
       b.     Pharmacokinetic features requiring loading dose of a drug. [3]
2.     **Pharmacological basis for the use of:**
  - a.     Atropine in physostigmine poisoning. [2]
  - b.      $\alpha$ -adrenoceptor blocker in BPH. [2]
  - c.     Acetylcysteine in paracetamol poisoning. [2]
  - d.     Lithium in bipolar depression. [2]
3.     **Short notes on:**
  - a.     SSRI. [2]
  - b.     Pharmacogenetically mediated ADR. [2]
  - c.     Endogenous antiseizure substances. [2]

**PART - II**

4.     Classify NSAIDs. Discuss the MOA, uses and side effects of aspirin. [6]
  5.     **Explain why:-**
    - a.     Atropine is contraindicated in glaucoma. [2]
    - b.     Alaklinization of urine is beneficial in the treatment of salicylate poisoning. [2]
    - c.     Morphine is contraindicated in head injury. [2]
    - d.     Adrenaline is combined with lidocaine. [2]
  6.     **Discuss the drug therapy of:-**
    - a.     Opioid dependence. [2]
    - b.     Iron poisoning. [2]
    - c.     Malignant hyperthermia. [2]
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