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Total No. of Pages : 02

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**M. Pharmacy (Pharmacology) (2017 & Onwards) (Sem.-1)****ADVANCED PHARMACOLOGY-I****Subject Code : MPL-102T****M.Code : 74676****Time : 3 Hrs.****Max. Marks : 75****INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

**1. Write notes on following :**

- |       |   |   |
|-------|---|---|
| a)    | Mechanism of action of general anesthetics.   | 5 |
| b)    | Biotransformation   | 5 |
| c)    | Antiplatelet drugs  | 5 |
| 2. a) | Define neurotransmitters. What are the criteria for a chemical to be called a neurotransmitter? | 6 |
| b)    | Discuss in detail glutamatergic transmission in CNS. What are the various glutamate receptors?  | 9 |
| 3.    | Answer why? <b>Any five :</b>   |   |
| a)    | ACE inhibitors cause dry cough.   | 3 |
| b)    | Antipsychotics cause extrapyramidal side effects  | 3 |
| c)    | Lag period with tricyclic antidepressants.  | 3 |
| d)    | Folic acid is called maturation factor  | 3 |
| e)    | Propranolol is used as antianxiety drug.  | 3 |
| f)    | Rivastigmine is used in Alzheimer's disease.  | 3 |





4.   a) Describe the physiological actions of histamine. Enumerate and discuss the clinical uses of antihistamines. 9
- b) Briefly discuss about newer antiepileptics. 6
5.   a) Discuss the pathophysiology of Parkinson's disease. Write a note on Levodopa. 10
- b) Define hypertension. What is the first line therapy for hypertension in pregnancy? Why? 5
6.   Answer the following :
  - a) G protein coupled receptors. 5
  - b) Concept of linear compartment model 6
  - c) Statins 4

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**

