Roll No. | | | | | | | | | | | | |

Total No. of Pages : 02

Total No. of Questions : 10

B.Pharmacy (Sem.–5)

PHARMACOLOGY-I

Subject Code : PHM-353

M.Code : 46143

Time : 3 Hrs. Max. Marks : 80

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of FIFTEEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains FOUR questions carrying TEN marks each and students have to attempt any THREE questions.**

SECTION-A

1. Write short notes on :

a) Define enzyme inducer with the help of example.

b) Give two factors modifying drug absorption.

c) Differentiate between tolerance and dependence.

d) What is the significance of bioassay?

e) Give two clinical uses of diazepam.

f) What is the rational for the use of levodopa in combination of carbidopa?

g) Define volume of distribution and give its formula.

h) What are G protein coupled receptors?

i) Give two disadvantages of oral route.

j) Why long term use of aspirin cause gastric ulcer?

k) Give two ideal properties of general anesthetics.

l) Define pharmacogenetics.

m) Define bioavailability. Why oral route has low bioavailability?

n) Differentiate between drug addiction and drug dependence.

o) Why dopamine is given in the form of prodrug?

SECTION-B

2. Explain in detail the neurohumoral transmission in sympathetic nervous system.
3. Give the mechanism of action of :
   a) Gabapentin
   b) Lidocaine
4. Explain the following drug interactions :
   a) NSAIDs and high ceiling diuretics
   b) MAO inhibitors and tryamine
5. Define bioassay. What are the various objectives of bioassay?
6. Discuss general management of a poisoned patient.

SECTION-C

7. Classify parasympatholytics. Give their adverse effects and clinical uses.
8. Write a note on following :
   a) SSRI's
   b) CNS stimulants
9. Describe in detail the various phases of drug discovery and development.
10. Explain the mechanism of action, pharmacological actions, adverse effects and clinical uses of morphine.

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.