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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 rationale 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.