Roll No. Total No. of Pages: 02

Total No. of Questions: 10

M.Sc.(Clinical Research) (Sem.-1)
PHARMACOLOGY

Subject Code: MSCR-103-18

M.Code: 75607

Date of Examination: 19-01-23

Time: 3 Hrs. Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN 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. Answer briefly:

- a) Receptors.
- b) Difference between additive effect and potentiation.
- c) Neurotransmitters
- d) Two differences between Type I and Type II adverse effects.
- e) Clinical uses of beta blockers.
- f) Second messengers
- g) ED50 and LD50
- h) The problems in extrapolating data from animals to humans.
- i) Anticholinesterase
- i) Biotransformation of toxicants

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SECTION-B

- 2. Classify anti cholinergies. Write any there clinical uses.
- 3. Write a note on therapeutic drug monitoring.
- 4. Define mutagenicity. Discuss Ames test.
- 5. Discuss briefly pharmacokinetic drug interactions.
- 6. Differentiate between sympathetic and parasympathetic nervous system.

SECTION-C

- 7. Define bioassay. Describe different types of bioassays with suitable examples.
- 8. Discuss in general neurohumoral transmission with the help of example.
- 9. Answer the following:
 - a) Carcinogenicity studies
 - b) Acute toxicity
- 10. Write notes on following:
 - a) STZ induced diabetes
 - b) Forced swim test

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.

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