

Exam Date & Time: 27-Mar-2021 (01:30 PM - 04:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Advanced Pharmacology I [PHA-MPL102T - S3]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) Explain the mechanism of action of diuretics that act by blocking ion transporters. (10)
- 2) Explain the pharmacological actions of prostaglandin analogues. Mention their therapeutic applications, citing examples (10)
- 3) List the clinical uses of serotonergic drugs. List the anti-parkinsonian drugs acting through modulation of central dopaminergic system (10)
- 4) Explain signal transduction of the superfamily of receptors stimulated by insulin. (10)
- 5) Describe pain pathway and explain how morphine modulates nociception. (10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Classify ionotropic glutamate receptors with examples of drugs affecting their functioning. (5)
- 7) With the help of a graph explain kinetics of drugs administered orally and intravenously that follow one-compartment model. (5)
- 8) Explain the mechanism of action of digitoxin. List the adverse effects of digitoxin. (5)
- 9) Explain the differences between the traditional and atypical antidepressants. (5)
- 10) With a neat diagram explain the mechanism of any two different class of the drugs used for the management of epilepsy. (5)

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