

Question Paper

Exam Date & Time: 28-Dec-2023 (10:00 AM - 01:00 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) Discuss volume of distribution and plasma protein binding. (10)
- 2) Explain the mechanism of action of different classes of antihypertensive agents (10)
- 3) Explain the function of the major neurotransmitters of the CNS, their receptors, and the different class of drugs that modify neurotransmitter actions. (10)
- 4) With a neat diagram discuss the signal transduction mechanism of GPCR. (10)
- 5) List the factors that modify drug actions. Explain with examples any eight factors that modify the drug action. (10)

SECTION - B

Answer all the questions.

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

- 6) Giving the uses of alpha and beta adrenergic agonists. (5)
- 7) Giving examples, list the uses of anti-histaminic drugs. (5)
- 8) Explain the role of vitamin K in blood coagulation. Give an example of a drug affecting this process. (5)
- 9) Explain the mechanisms of action of different classes of anticonvulsants (5)
- 10) Describe with a neat diagram the mechanisms of actions of anti-cholinesterases (5)

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