

Exam Date & Time: 14-Dec-2022 (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) Giving examples of drugs, explain how xenobiotics are transported across membranes in a living system (10)
- 2) Explain the mechanism of action of class-I anti-arrhythmic drugs. (10)
- 3) Discuss the GPCR and their involvement in drug action (10)
- 4) Describe the cellular level mechanisms of actions of anti-cholinesterases (10)
- 5) Classify Neuroleptics. Explain the major pharmacological actions of this class of drugs including adverse effects. What are the major differences as well as advantages of newer antipsychotic drugs? Illustrate your answer with examples. (10)

#### SECTION - B

Answer all the questions.

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

- 6) List the drugs affecting adrenergic neurotransmission mentioning their mechanism of action. (5)
- 7) Giving rationale, explain the uses of alpha-adrenergic receptor antagonists? (5)
- 8) Giving examples of drugs lysing blood clots, explain their mechanism of action. (5)
- 9) With a labeled diagram, explain the various loci where cholinergic transmission can be modified by drugs. (5)
- 10) Discuss the physiology of the function of chloride channel. Explain how different classes of drugs affect the function of the channel. (5)

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