

Exam Date & Time: 03-Dec-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Specialization: Pharmacology

Date: 03-12-2018

Advanced Pharmacology I [PHA-MPL102T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Explain the different secondary messenger systems of G-protein coupled receptors. (10)
- 2) Explain the molecular mechanism and adverse effects of digoxin. (10)
- 3) Describe cholinergic neurotransmission. List the different drugs that affect the system. (10)
- 4) Explain the molecular mechanism of morphine as analgesics (10)
- 5) Classify anti-epileptic drug based on the ion channels that are blocked. Explain the mechanism of action of any one drug used for absence seizure. (10)

SECTION - B

Answer all the questions.

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

- 6) Compare and contrast signal transduction mechanisms of GABA receptor subtypes (5)
- 7) Explain the synthesis of prostaglandins and explain the mechanism of action of aspirin. (5)
- 8) Describe platelet activation and aggregation following bleeding. List the different drugs that affect the processes. (5)
- 9) Explain the standard i.v plasma con-time characteristics of drugs whose elimination follow one compartment first order kinetics. (5)
- 10) Explain the pharmacological actions and uses of atropine. (5)

-----End-----