

Examination: Master in Pharmacy First Year First Semester EXAM 2025

Subject: **Advanced Pharmacology I**

Ref. No.: **Ref. No.: Ex/MPL102T/2025**

Time: 03 hrs

Full Marks: 75

Answer all the questions

Section A (25 marks)

- Q1) Discuss about the various clinically relevant hypothesis(s) behind development of Nitrate Tolerance. (10)
- Q2) Explain in details why anti-arrhythmic drugs themselves are sometimes responsible for creation of arrhythmia and mention which group of anti-arrhythmic drugs are notoriously famous for this effect. (10)
- Q3) Mention about some Non- Nitrate Antianginal drugs. (05)

Section B (25 marks)

- Q4) Write notes on (**any one**) (10)
- a) Bio-transportation of drugs
- b) Factors affecting absorption of drugs.
- Q5) Discuss about any one of the following: (10)
- a) G-protein coupled receptors.
- b) Drug synergism
- Q6) Write down the clinical importance of plasma protein binding of drugs. (5)

Section C (25 marks)

- Q7) Describe the steps involved in synaptic transmission of neuronal impulses. (10)
- Q8) Explain the synthesis, release and receptors of the following neurotransmitters (**any two**): (7.5x2=15)
- a) Acetylcholine
- b) Noradrenaline
- c) Dopamine
- d) GABA