

Examination: Master in Pharmacy First Year First Semester EXAM 2024

Subject: **Advanced Pharmacology I**

Ref. No.: Ex/MPL102T/2024

Time: 03 hrs

Full Marks: 75

**Answer all the questions**

**Section A (25 marks)**

- Q1) Explain the hypothesis for development of tolerance in nitrate therapy. (7)
- Q2) Explain why it is not possible to reduce blood pressure on acute scale using beta blocker. (8)
- Q3) Explain the role of beta blockers in the management of heart failure. (10)

**Section B (25 marks)**

- Q4) Write notes on (any one) (10)
- a) Phase I and Phase II drug metabolism
- b) Biotransformation of drugs.
- Q5) Discuss about any one of the following: (10)
- a) Nuclear receptors
- b) Drug Antagonism
- Q6) Write down the kinetics of drug elimination. (5)

**Section C (25 marks)**

- Q7) Describe the steps involved in synaptic transmission of neuronal impulses. (9)

**OR**

Explain the biosynthesis of Prostaglandins.

- Q8) Explain the role of prostaglandins on the following systems (any two) (2x4=8)
- a) Cardiovascular system      b) Gastrointestinal system      c) Ocular system
- Q9) Explain the mode of action of the following (any two): (2x4=8)
- a) Misoprostol
- b) Latanoprost
- c) Montelukast