

Examination: Bachelor of Pharmacy Second Year Second Semester EXAM 2025

Subject: PHARMACOLOGY I

Ref. No.: Ex/BP404T/2025

Time: 03 hrs Full Marks: 75

GROUP – A (25 marks)

Q1) Define biotransformation. What are the changes that occur during biotransformation of drugs in the body. Discuss shortly about the phases of biotransformation reaction. (10)

OR.

Discuss about the different transport mechanism of drugs through biological membrane. (10)

Q2) Write notes on (any two) (7.5x2=15)

- Different sites of drug elimination.
- Principles of drug action.
- Routes of drug administration.

GROUP – B (25 marks)

Q3) Explain about the targets of drug action (with schematic diagram) in the management of Glaucoma. (10)

Q4) Explain about the targets of drug action in the management of Myasthenia Gravis. (10)

Q5) How Reserpine reduces blood pressure? How is Botulinum toxin used for cosmetic purposes? (05)

GROUP – C (25 marks)

Q6) Write short notes on (*any Three*): (5x3=15)

- | | |
|---|---|
| a) Synthesis and storage of Dopamine | b) Pathophysiology of Parkinson's disease |
| c) Synaptic conduction of nerve impulse | d) Dopaminergic receptors |
| e) Impulse propagation in axons | |

Q7) Discuss the mechanism of action for the following drugs (*any Two*): (5x2=10)

- | | |
|----------------|---------------|
| a) L-DOPA | b) Carbidopa |
| c) Pramipexole | d) Entecapone |