

Examination: Bachelor of Pharmacy Second Year Second Semester EXAM 2024

Subject: PHARMACOLOGY I

Ref. No.: Ex/BP404T/2024

Time: 03 hrs Full Marks: 75

GROUP – A (25 marks)

Q1) Write down the different transport mechanism by which drugs are biotransported through biological membrane.

OR.

Briefly discuss about the different factors that responsible for absorption of drugs. (10)

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

- a. Biotransformation of drugs.
- b. Mechanism of drug action.
- c. Parenteral route 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 the following: (5 X 3 = 15)

- a) Effect of IV administration of Acetylcholine on blood pressure.
- b) Effect of Pilocarpine on the eye.
- c) How Reserpine reduces blood pressure?
- d) How SSRI and SNRI act as anti-depressants?
- e) How Botulinus toxin is used for cosmetic purpose?

GROUP – C (25 marks)

Q5) 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

Q6) Discuss the mechanism of action for the following drugs (**any Two**): (5x2=10)

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