

FACULTY OF PHARMACY

B. Pharmacy IV Semester (PCI) (Backlog) Examination, March 2022

Subject: Pharmacology - I

Time: 3 Hours

Max. Marks: 75

PART – A

Note: Answer all questions.

(10 x 2 = 20 Marks)

- 1 Discuss the concept of first pass metabolism with examples.
- 2 Define Bioavailability. Why the bioavailability of drug s is lower after oral administration.
- 3 What is dose response relationship? What are its advantages?
- 4 Define plasma half life. Mention its significance.
- 5 What is vasomotor reversal of Dale?
- 6 Enlist the drugs used in glaucoma.
- 7 Mention the uses of pre-anesthetic medication.
- 8 Name excitatory neurotransmitters present in CNS.
- 9 What is drug addiction? Give examples.
- 10 Mention the therapeutic uses and adverse reactions of benzodiazepines.

PART – B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

- 11 (a) Write the pharmacological actions of adrenaline.
(b) Explain the various therapeutic uses and adverse reactions of β -adrenergic blockers.
- 12 Classify antiepileptic drugs. Explain the mechanism of action, adverse effects and uses of hydantoins and aliphatic carboxylic acids.
- 13 What is Alzheimer's disease? Classify drugs used in Alzheimer's disease and explain the mechanism of action, adverse effects and therapeutic uses of cholinergic activators.

PART – C

Note: Answer any seven questions.

(7 x 5 = 35 Marks)

- 14 Explain in detail about phase-I biotransformation of drugs with examples.
- 15 Describe the three major effector pathways through which G-protein coupled receptors function.
- 16 Discuss about pharmacokinetic drug interactions with suitable examples.
- 17 Classify neuromuscular blockers with examples. Write the mechanism of action, adverse effects and therapeutic uses of curare alkaloids.
- 18 Mention the mechanism of action and uses of local anesthetic agents.
- 19 Write the pharmacological actions of alcohol.
- 20 Write about the mechanism and stages of general anesthesia.
- 21 Classify antiparkinson's drugs with examples. Write the mechanism of action and adverse effects of dopamine precursor.
- 22 Discuss in detail the pharmacological actions of morphine.
