

FACULTY OF PHARMACY

B. Pharmacy IV - Semester (PCI) (Backlog) Examination, April 2024

Subject: Pharmacology - I

Time: 3 Hours

Max. Marks: 75

PART-A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Discuss the concept of first pass metabolism with examples.
2. Differentiate enzyme induction and enzyme inhibition.
3. Mention the functions of receptors.
4. Discuss the differences between general anesthetics and local anesthetics.
5. Write a note on co-transmission.
6. Describe the stages of general anesthesia.
7. Define synergism. Classify with examples.
8. Mention the uses of disulfiram.
9. Mention the clinical uses of naltrexone.
10. Define drug abuse. Give examples.

PART-B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

11. Define Receptor. Classify receptors and discuss about signal transduction mechanism of transmembrane enzyme linked receptors.
12. (a) Write the pharmacological actions of adrenaline.
(b) Explain the various therapeutic uses and adverse reactions of β -adrenergic blockers.
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. Discuss the mechanism of action of local anesthetics.
15. Write a note on various phases of clinical trials.
16. Explain about the factors modifying drug action.
17. Compare the merits and demerits of oral and parenteral routes of administration.
18. Explain the pharmacological actions of adrenaline.
19. Define myasthenia gravis. Enlist the drugs used in its treatment.
20. Explain the pharmacology of hydantoins.
21. Discuss the mechanism of action and uses of morphine.
22. Classify sedative-hypnotics with examples. Explain the mechanism of action, adverse effects and uses of benzodiazepines.