

BACHELOR OF PHARMACY (B. PHARM.) (CBCS-2019 COURSE)

B. Pharm. Sem-IV : WINTER- 2022

SUBJECT : PHARMACOLOGY-I

Day : Wednesday

Time : 02:00 PM-05:00 PM

Date : 25-01-2023

W-20673-2022

Max. Marks : 75

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in the **SEPARATE** answer books.

**SECTION - I**

**Q.1** Solve all the questions of the following: **(20)**

- a) Explain the mechanism of action of benzodiazepines.
- b) What are the advantages of intravenous route of drug administration?
- c) Classify antiepileptic drugs with examples.
- d) What is cheese reaction?
- e) Write the mechanism of action of local anesthetic agents.
- f) Define agonist and antagonist.
- g) Justify the use of levodopa in combination with carbidopa in the treatment of Parkinsonism.
- h) What is blood-brain-barrier? What is its significance?
- i) Classify antianxiety drugs with suitable examples.
- j) What are pharmacodynamic drug-drug interactions? Give example.

**Q.2** Attempt any **TWO** of the following: **(20)**

- a) Define bioavailability. Enlist and explain factors affecting absorption and bioavailability of drugs.
- b) Explain the mechanism of action, pharmacological actions and adverse effects of phenytoin.
- c) Classify parasympathomimetic agents with examples. Explain the mechanism of action, pharmacological actions, adverse effects and therapeutic uses of acetylcholine.

**SECTION - II**

**Q.3** Attempt any **SEVEN** of the following: **(35)**

- a) Explain different stages of general anesthesia.
- b) What is anaphylactic shock? Explain how adrenaline is beneficial in it?
- c) What are sympatholytic agents? Explain the therapeutic uses of beta adrenergic blockers.
- d) Explain in detail the pre-anesthetic medication.
- e) Explain various routes of drug elimination.
- f) Classify antipsychotics. Explain pharmacology of chlorpromazine.
- g) Explain the pharmacotherapy of myasthenia gravis.
- h) Write a note on plasma protein binding of drugs.
- i) Write an elaborate note on skeletal muscle relaxants.

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