

INTERNAL EXAMINATION  
JANUARY- 2026  
BACHELOR OF PHYSIOTHERAPY  
THIRD SEMESTER

SUBJECT NAME: Pharmacology

SUBJECT CODE: BPT-118

DATE: 16/01/2025

TIME: 11:00 am to 12:00 pm

TOTAL MARKS: 30

**Instructions:**

1. Examinees must bring their ID card every day.
2. Read the questions carefully.
3. You must not talk to, attempt to communicate with or disturb another candidate.
4. Possession of a mobile phone and any other material is prohibited.

**A. Multiple Choice Questions (All compulsory)**

(6x 1 = 6)

Write down the one correct answer for MCQ in supplementary.

1. A drug that binds to a receptor and produces an action opposite to an agonist is called a(n):

- a. Partial agonist
- b. Inverse agonist
- c. Neutral antagonist
- d. Agonist

2. What does the therapeutic index (TI) measure?

- a. The speed of drug action
- b. The ratio of lethal dose (LD50) to effective dose (ED50)
- c. The total amount of drug in the body
- d. The intensity of a drug's effect

3. Drugs are excreted from the body through:

- a. Kidney
- b. Breast milk, saliva, sweat & bile
- c. Intestine
- d. All of the above.

4. Which of the following is a source for obtaining drugs-?

- a. Animals and plants
- b. Micro-organisms
- c. Synthetic origin
- d. All of the above

5. When the medicine is administered into the spinal cavity, this route is known as-

- a. Intrathecal
- b. Intraosseous
- c. Intra peritoneal
- d. Intracardiac

6. Which of the following is a Phase I metabolic reaction?

- a. Hydroxylation
- b. Conjugation
- c. Glucuronidation
- d. Sulfation

**B. Write Short notes (Any Two)**

(2 x 2 = 4)

1. Define stimulation and depression?
2. What you understand by plasma protein binding of drugs?
3. Write about first pass metabolism of drug.

**C. Write Short notes (Any Two)**

(5 x 2 = 10)

1. Classify Cholinoceptors and cholinergic agonists. Give pharmacological actions of Acetylcholine.
2. Classify adrenergic receptors. Give therapeutic classification of adrenergic drugs and enlist pharmacological effect of Adrenaline.
3. Give detailed uses of  $\alpha$  blockers  $\beta$  adrenergic blocking drugs.

**D. Write Long notes (Any One)**

(10 x 1 = 10)

1. Enumerate drugs for congestive cardiac failure. Describe the actions, uses and adverse effects of glycosides.
2. Classify Anti-anginal drugs. Discuss MOA, therapeutic uses and adverse effects of Nitrates.