

BACHELOR OF PHYSIOTHERAPY (BPT)
SECOND YEAR EXAMINATION, SEPTEMBER-2026

PAPER – V: PHARMACOLOGY

[Time allotted: Three Hours]

[Max Marks: 70]

Note: Attempt all questions

Draw suitable diagrams wherever necessary

A: Short answer questions:

(7 x 9 = 63)

- Q. 1.** Classify drugs for treatment of Rheumatoid Arthritis. Write mechanism of action, therapeutic uses and adverse effects of Methotrexate.
- Q. 2.** Classify Beta Blockers. Describe in brief the uses & adverse effects of Beta Blockers.
- Q. 3.** Classify Oral Anti-diabetic drugs. Write mechanism of action & adverse effects of Sulfonylureas.
- Q. 4.** Classify Anti-hypertensive drugs. Write the mechanism of use of ACE Inhibitors in Hypertension.
- Q. 5.** Write mechanism of action, therapeutic uses & Adverse effects of Aspirin
- Q. 6.** Write in detail therapeutic uses and adverse effects of Corticosteroids.
- Q. 7.** Management of Organophosphate poisoning.
- Q. 8.** Classify Antidepressant drugs. Write mechanism of action, therapeutic uses & adverse effects of SSRIs.
- Q. 9.** Explain mechanism of action of Warfarin. Write therapeutic uses, adverse effects and contraindications of warfarin.

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(MCQ)

Time allotted for MCQ - 15 minutes

B: MCQs (Single response type):

(½ x 14 = 07)

select the most appropriate answer and encircle the alphabet against it.

1. Use of Alpha-2 agonists are all except:
 - a. Sedation
 - b. Glaucoma
 - c. Benign hyperplasia of prostate
 - d. Hypertension
2. Skeletal Muscle relaxant of choice in renal and hepatic disease is:
 - a. Pancuronium
 - b. Vecuronium
 - c. Atracurium
 - d. Rocuronium
3. Which drug shows the feature of Dissociative Anaesthesia:
 - a. Propofol
 - b. Thiopentone Sodium
 - c. Midazolam
 - d. Ketamine
4. Maximum bioavailability is seen with which route of drug administration?
 - a. Oral
 - b. Rectal
 - c. Intravenous
 - d. Transdermal
5. All are antiepileptic drugs except:
 - a. Aspirin
 - b. Carbamazepine
 - c. Sodium valproate
 - d. Diazepam
6. Time taken by drug dose to be reduced to half is known as:
 - a. Plasma half life
 - b. Bioavailability
 - c. Volume of distribution
 - d. LD₅₀
7. Naltrexone is used in the treatment of:
 - a. Loose stools
 - b. Hypotension
 - c. Glaucoma
 - d. Opioid dependence
8. Example of selective COX-2 inhibitor is:
 - a. Aspirin
 - b. Diclofenac
 - c. Dobutamine
 - d. Celecoxib
9. Drug used for closure of PDA:
 - a. Indomethacin
 - b. Phenytoin
 - c. Verapamil
 - d. Digitalis
10. Which of the following is a benzodiazepine antagonist?
 - a. Flumazenil
 - b. Naloxone
 - c. Pentazocine
 - d. Carbidopa
11. An adverse effect caused by phenytoin is:
 - a. Diarrhoea
 - b. Hypertension
 - c. Gum hypertrophy
 - d. Extrapyramidal symptoms
12. Which of the following is a selective serotonin reuptake inhibitor (SSRI)?
 - a. Bromocriptine
 - b. Fluoxetine
 - c. Selegiline
 - d. Imipramine
13. Pharmacodynamics is the study of:
 - a. Adverse effects of drugs
 - b. Development of new drugs
 - c. Absorption, distribution, metabolism and excretion of drugs
 - d. Mechanism of drug action
14. Bioavailability of 100% is seen with which route:
 - a. Oral
 - b. Rectal
 - c. Intramuscular
 - d. Intravenous