



43280



Library
Pharmaceutical Technology
Brainware University
Barasat, Kolkata-700125

BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – D.Pharm-2024

Course Name – Pharmacology - Theory

Course Code - ER20-21T

(Year II)

Full Marks : 80

Time : 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

- (i) Which class of drugs is used to treat muscle spasms and spasticity by acting on the neuromuscular junction?
 - a) Benzodiazepines
 - b) Antidepressants
 - c) Antispasmodics
 - d) Antihistamines
- (ii) Which neurotransmitter is primarily responsible for transmitting signals from motor neurons to skeletal muscles?
 - a) Acetylcholine
 - b) Dopamine
 - c) Serotonin
 - d) GABA
- (iii) Which of the following drugs is a skeletal muscle relaxant commonly used for short-term relief of muscle spasms?
 - a) Baclofen
 - b) Diazepam
 - c) Methocarbamol
 - d) Cyclobenzaprine
- (iv) Which medication is used to block the effects of histamine and is commonly used for the treatment of allergic reactions?
 - a) Diphenhydramine
 - b) Ranitidine
 - c) Loratadine
 - d) Phenylephrine
- (v) Which of the following medications is commonly used to treat glaucoma by reducing intraocular pressure?
 - a) Timolol
 - b) Furosemide
 - c) Digoxin
 - d) Metoprolol
- (vi) Which class of drugs is used to dilate the pupils for eye examinations or surgeries?
 - a) Beta-blockers
 - b) Prostaglandin analogs
 - c) Alpha-adrenergic agonists
 - d) Mydriatics

2. What are the pharmacological actions and contraindication of atropine? (3)
3. Describe the clinical uses of morphine. (3)
4. Classify NSAIDs with examples. (3)
5. What are the adverse effects of chemotherapy? (3)
6. Write the classification of sedative drugs with suitable examples. (3)
7. Write the adverse effects of potassium-sparing diuretics and carbonic anhydrase inhibitors. (3)
8. Explain the dosage regimen and contraindications of antidiarrheal drugs. (3)
9. Explain the term Pharmacokinetics in details. (3)
10. Explain the mechanism of action of methylxanthines. (3)
11. Illustrate the physiological role of serotonin. (3)

OR

Explain the mechanism of action of salbutamol. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

12. Classify benzodiazepines and write the mechanism of action and therapeutic activity of diazepam. (5)
13. Classify the drug used in treatment of peptic ulcer and explain the mode of action of proton pump inhibitors. (5)
14. Explain the term 'broad-spectrum antibiotics' and write about the mechanism of action, therapeutic uses and adverse effects of doxycycline. (5)
15. Classify the chemotherapeutic agents on the basis of mechanism of action. (5)
16. Illustrate distributive shock. (5)
17. Write the drug therapy of anaphylactic shock. (5)

OR

Illustrate the physiological role of prostaglandins. (5)
