



BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(PA)-2021/B.Sc.(PA)-2022/B.Sc.(PA)-2023

Course Name – Pharmacology & General Medicine

Course Code - BPAC301

(Semester III)

Full Marks : 60

Time : 2:30 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 15=15

1. Choose the correct alternative from the following :

- (i) Choose the class of drugs that lower blood pressure?
 - a) Antihypertensives
 - b) Antipyretics
 - c) Antidepressants
 - d) Diuretics
- (ii) Identify the process by which a drug enters the bloodstream from its site of administration:
 - a) Distribution
 - b) Absorption
 - c) Metabolism
 - d) Excretion
- (iii) Recognize the enzyme family predominantly involved in drug metabolism:
 - a) Amylases
 - b) Cytochrome P450
 - c) Lipases
 - d) Proteases
- (iv) Identify the container type suitable for storing vaccines.
 - a) Transparent Plastic
 - b) Opaque Glass
 - c) Metal Tin
 - d) Transparent Glass
- (v) Recognize the potential consequence of improper drug storage.
 - a) Enhanced Drug Efficacy
 - b) Accelerated Drug Expiration
 - c) Higher Drug Costs
 - d) Reduced Adverse Effects
- (vi) Define evidence-based practice in therapeutics.
 - a) Intuition-Based Decisions
 - b) Using Scientific Evidence, Clinical Expertise, and Patient Values
 - c) Following Traditional Practices
 - d) Random Guesswork
- (vii) Identify the drug that helps in Inhibition of folic acid metabolism
 - a) Sulphonamides
 - b) Penicillin
 - c) Macrolides
 - d) Fluoroquinilones
- (viii) Identify the Cephalosporin that can cross the Blood-Brain barrier
 - a) Cefalexin
 - b) Ceftriaxone
 - c) Cefuroxime
 - d) Cefadroxil

- (ix) Select the mechanism of action of chloroquine, a common antimalarial drug.
 - a) Disrupting Protein Synthesis
 - b) Inhibiting Cell Wall Synthesis
 - c) Inhibiting DNA Replication
 - d) Inhibiting Heme Polymerase
- (x) Give an example of an antiscabies agent that interferes with nerve impulses.
 - a) Permethrin
 - b) Benzyl Benzoate
 - c) Ivermectin
 - d) Crothamiton
- (xi) Identify the drug that forms a protective barrier over ulcers and irritated areas in the GI tract.
 - a) Ranitidine
 - b) Famotidine
 - c) Sucralfate
 - d) Magnesium Hydroxide
- (xii) Give an example of a calcium channel blocker used in anti-anginal therapy:
 - a) Atenolol
 - b) Amlodipine
 - c) Digoxin
 - d) Clopidogrel
- (xiii) Select the enzymes targeted by NSAIDs to reduce pain and inflammation:
 - a) Amylases
 - b) Lipases
 - c) Proteases
 - d) Cyclooxygenases (COX)
- (xiv) Select the COX-3 inhibitor
 - a) Cetrizine
 - b) Levocetizine
 - c) Promethazine
 - d) Paracetamol
- (xv) Recognize a dietary consideration for individuals with hypothyroidism involving iodine:
 - a) Excessive Iodine Intake
 - b) Iodine deficiency
 - c) High protein diet
 - d) Low fat diet

Group-B

(Short Answer Type Questions)

3 x 5=15

- 2. State any 3 common properties of aminoglycosides. (3)
- 3. State how beta lactum group of antibiotics produce bacteriocidal action. Give two examples of beta lactum ring containing antibiotic. (3)
- 4. Enumerate the 1st line of treatment for Peptic ulcer. Name one Mucosal Protective Agent used in Peptic ulcer disease. (3)
- 5. Define Stroke. Enumerate its types. (3)
- 6. Explain the MoA of Benzodiazepines in brief. (3)

OR

Classify Injectable Local anaesthetic agents based on duration of action. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

- 7. Describe the MoA of ACE inhibitors. Enumerate their adverse effects (5)
- 8. What is Dysentery and its Causes ? Sign Symptoms ? What is the diagnosis and Treatment of Dysentery? (5)
- 9. Define Conscious sedation. Explain the MoA of opioid analgesics. (5)
- 10. Summarize the clinical features and treatment of hypothyroidism. (5)
- 11. What is tubercularis and its Sign and Symptoms. How you Diagnose it? What will be the management of PTB. (5)
- 12. What is Perforation? Describe Cause, sign/symptoms A its management. (5)

OR

What is Meningitis? Write down the Causes of it .what are the signs and symptoms of Meningitis and treatment. (5)