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Brainware University
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BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Sc.(OTT)-2022/B.Sc.(OTT)-2023/B.Sc.(OTT)-2024/B.Sc.(OTT)-2025

Course Name – Clinical Pharmacology

Course Code - BOTTC204

(Semester II)

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) Write the correct answers that Mannitol is described as:
 - a) Antidiabetic
 - b) Antiemetic
 - c) Purgative
 - d) Osmotic diuretic
- (ii) Select the drug used in Acute exacerbation of Asthma:
 - a) N Acetyl Cysteine
 - b) Metformin
 - c) Salbutamol
 - d) Cetirizine
- (iii) Identify the drug of choice in eclampsia (pregnancy onset) seizures:
 - a) MgSO₄
 - b) Valproate
 - c) Phenobarbital
 - d) Phenytoin
- (iv) State the mechanism of action of Levothyroxine.
 - a) T₄ replacement
 - b) T₃ replacement
 - c) T₂ replacement
 - d) Thyroid gland stimulation
- (v) Identify the long acting insulin:
 - a) Aspart
 - b) Lispro
 - c) Glargine
 - d) NPH
- (vi) Identify the Side effect associated with Metformin is:
 - a) Weight Gain
 - b) Weight loss
 - c) Hypoglycemia
 - d) Dehydration
- (vii) Select the name given for the drug to being official name:
 - a) Trade name
 - b) Brand name
 - c) Generic name
 - d) Chemical name
- (viii) Select the mechanism of action of beta-blockers?
 - a) Blocks sodium channels
 - b) Blocks calcium channels
 - c) Stimulates beta-adrenergic receptors
 - d) Blocks beta-adrenergic receptors
- (ix) Select the therapeutic use of Amiodarone:

- a) Hypertension
c) Type 2 diabetes
- b) Atrial fibrillation
d) Chronic obstructive pulmonary disease (COPD)
- (x) Select a selective alpha-1 adrenergic receptor antagonist:
a) Tamsulosin
c) Albuterol
- b) Prazosin
d) Metoprolol
- (xi) Select the right option regarding antiepileptic drug:
a) PENTOBARBITONE
c) PENTOBARBITONE
- b) MELATONIN
d) ZOPICLONE
- (xii) Define Pharmacodynamics.
a) Movement of drug in and alteration of the drug by the body
c) Physiological and biochemical effects of drugs and their mechanism of action at organ system/subcellular/macromolecular levels
- b) Application of pharmacological information together with knowledge of the disease for its prevention, mitigation or cure
d) Scientific study of drugs in man
- (xiii) Identify Live attenuated vaccine.
a) Plague
c) BCG
- b) Hepatitis A
d) Influenza
- (xiv) Locate which is not action of T3 and T4 hormones.
a) T3 T4 causes diuresis
c) Heart rate, contractility and output are increased
- b) T3 and T4 is essential for normal growth
d) Propulsive activity of gut is increased by T3 T4
- (xv) Select the year in year in which kidney transplant was first done:
a) 1965
c) 1976
- b) 1954
d) 1946

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Give any two example of H1 receptor along with its adverse effect. (3)
3. Name two bronchodilators and mention two adverse effects. (3)
4. Name one common cause of acute renal failure. List the symptoms of chronic renal failure. (3)
5. Write the functions of antioxidants. (3)
6. Explain One Common Cause of Liver cirrhosis. Describe two Symptoms of the disease in brief. (3)

OR

Define Urticaria. Enumerate the other Clinical Manifestations of Type I hypersensitivity reaction. Name the drug of choice for its management. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Name the causative organism carrier causing Malaria. State its clinical features and management. (5)
8. Classify Antihistamines. Explain briefly the clinical uses of antihistamines. (5)
9. Describe antihypertensive drugs? Classify with examples. (5)
10. Define Shock. Classify Shock. State the causes of hypovolemic shock. Enumerate the general measures required in management of shock. (5)
11. Classify local anesthetics. State the uses of EMLA. (5)
12. Explain the various routes of drug administration. (5)

OR

Explain the various solid and semi-solid drug dosage forms. State Young's Formula. (5)

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