



## BRAINWARE UNIVERSITY

**Term End Examination 2023-2024**  
**Programme – B.Sc.(OTT)-2022/B.Sc.(OTT)-2023**  
**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) Select which route of drug administration is most likely to lead to the first-pass effect?
- |                |                  |
|----------------|------------------|
| a) Sublingual  | b) oral          |
| c) intravenous | d) intramuscular |
- (ii) Select the neurones involved in Parkinsonism
- |                          |                         |
|--------------------------|-------------------------|
| a) GABAnergic neurones   | b) Cholinergic neurones |
| c) Dopaminergic neurones | d) All of these         |
- (iii) State drug to be used in Anaphylaxis reaction
- |                |               |
|----------------|---------------|
| a) Epinephrine | b) Dopamine   |
| c) Valproate   | d) Fenoldopam |
- (iv) Identify the effect of Norepinephrine
- |          |          |
|----------|----------|
| a) BP ↑  | b) BP ↓  |
| c) HR ↑↑ | d) HR ↓↓ |
- (v) Identify the only vaccine with intradermal route of administration
- |         |        |
|---------|--------|
| a) HepB | b) OPV |
| c) IPV  | d) BCG |
- (vi) Identify which of the following anticancer drug has high emetogenic potential:
- |                 |                     |
|-----------------|---------------------|
| a) Vincristine  | b) Cisplatin        |
| c) Chlorambucil | d) 6-Mercaptopurine |
- (vii) Identify the anticoagulant drug?
- |              |               |
|--------------|---------------|
| a) Warfarin  | b) digoxin    |
| c) albuterol | d) piperillin |
- (viii) Select a common side effect of glucocorticoids?

- a) Hypotension  
c) Immunosuppression
- (ix) Select a common side effect of nonsteroidal anti-inflammatory drugs (NSAIDs)?
- a) Hypertension  
c) Gastric ulcers
- (x) Identify the therapeutic use of propranolol?
- a) Hypotension  
c) Anxiety disorder
- (xi) Select a common side effect of proton pump inhibitors (PPIs)?
- a) Hypoglycemia  
c) Diarrhea
- (xii) Give example of local routes of drug administration
- a) Oral  
c) Topical
- (xiii) Choose BARBITURATES –
- a) Diazepam  
c) Zopiclone
- (xiv) State which one Bacterial Vaccine
- a) MMR vaccine  
c) Rabies vaccine
- (xv) Select the most important consideration regarding the information in informed consent
- a) It be understood by the patient  
c) It must be technically accurate
- b) Hypoglycemia  
d) Hyperthyroidism
- b) Hypoglycemia  
d) Hepatotoxicity
- b) Depression  
d) Migraine prophylaxis
- b) Hypertension  
d) Headache
- b) Parenteral  
d) Sublingual
- b) Phenobarbitone  
d) Melatonin
- b) Hepatitis B vaccine  
d) BCG Vaccine
- b) It must be communicated free of emotion  
d) It must be delivered in writing

### Group-B

(Short Answer Type Questions)

3 x 5=15

2. Write a short note on Amoxicillin. (MoA and Uses) (3)
3. State the phase I reactions of drug metabolism. (3)
4. Define First pass effect. (3)
5. Write the classification of anti-thyroid drugs. (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 factors affecting drug actions on the body. (5)
8. Explain the channels of Drug Excretion. (5)
9. Define Chemotherapy. Compare Bactericidal and Bacteriostatic agents with example. Classify anti microbial agents according to their spectrum of activity. (5)
10. Explain the pharmacology of adrenergic blockers. (5)
11. Define Conscious sedation. Explain the MoA of opioid analgesics. (5)
12. Summarize the clinical features and treatment of hypothyroidism. (5)

OR

Summarize the clinical features and treatment of hyperthyroidism. (5)