



## BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Optomety-2021

Course Name – Basic & Ocular pharmacology

Course Code - BOPTOC404

( Semester IV )

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) State the duration of action of short acting barbiturates
- |            |                |
|------------|----------------|
| a) 60 mins | b) 10-15 hours |
| c) 1 hour  | d) 3-8 hours   |
- (ii) Name the barbiturate used in induction of general anaesthesia
- |                   |                   |
|-------------------|-------------------|
| a) Pentobarbitone | b) Phenobarbitone |
| c) Thiopentone    | d) Methypylon     |
- (iii) Select the correct method by which Hypnotics work :
- |                      |                   |
|----------------------|-------------------|
| a) Repolarization    | b) Depolarization |
| c) Hyperpolarization | d) None of These  |
- (iv) Select the drug that has been found to reduce alcohol craving and chances of resumed heavy drinking by alcoholics after they have undergone a detoxification programme:
- |                     |                   |
|---------------------|-------------------|
| a) Chlordiazepoxide | b) Chlorpromazine |
| c) Methadone        | d) Naltrexone     |
- (v) Report the action exerted by barbiturates:
- |                   |                           |
|-------------------|---------------------------|
| a) Anticonvulsant | b) Antianxiety            |
| c) Analgesic      | d) Respiratory depressant |
- (vi) Name the drug that should be avoided 48-hours before/after use of IV contrast media?
- |                 |                   |
|-----------------|-------------------|
| a) Phenytoin    | b) Metformin      |
| c) Voriconazole | d) Pyridostigmine |
- (vii) Name the class of drug known to reduce fever:
- |                 |                |
|-----------------|----------------|
| a) Analgesics   | b) Anesthetics |
| c) Antipyretics | d) Antibiotics |
- (viii) Identify the drug used to treat corneal ulcers:
- |                   |               |
|-------------------|---------------|
| a) Corticosteroid | b) Atropine   |
| c) Antibiotics    | d) Antifungal |

- (ix) The study of drug in humans is described as:
- a) Pharmacy  
b) Clinical Pharmacology  
c) Toxicology  
d) Pharmacognosy
- (x) A drug is identified by a scientific body USAN (United State Adopted Names) Council by its:
- a) Brand Name  
b) Generic Name  
c) Chemical Name  
d) None of These
- (xi) The relationship between drug concentration & time is identified by:
- a) Pharmacogenomics  
b) Pharmacovigilance  
c) Pharmacodynamics  
d) Pharmacokinetics
- (xii) Select the correct term for effect of body on the drug:
- a) Pharmacokinetics  
b) Pharmacodynamics  
c) Pharmacogenetics  
d) Pharmacology
- (xiii) Identify the side effect of Chloramphenicol:
- a) Dizziness  
b) Headache  
c) Bone marrow suppression  
d) Immunity Suppression
- (xiv) Identify the drug used in dialation of pupil:
- a) Tropicamide  
b) Betamethasone  
c) Levofloxacin  
d) Gentamicin
- (xv) The application of pharmacological information for curing disease is:
- a) Pharmacology  
b) Pharmacodynamics  
c) Pharmacotherapeutics  
d) Pharmacy

**Group-B**

(Short Answer Type Questions)

3 x 5=15

2. Recommend the drugs for Cataract Surgery (3)
3. Review the importance of ophthalmic NSAIDs (3)
4. Describe the side effects of corticosteroid eye drops (3)
5. Summarize about Ocular Pharmacokinetics (3)
6. Explain the pupillary light reflex (3)

**OR**

Explain the effects of Benzodiazepines in CNS (3)

**Group-C**

(Long Answer Type Questions)

5 x 6=30

7. Categorize the various sources of drug and give example of each of them (5)
8. Differentiate between Pharmacokinetics & Pharmacodynamics (5)
9. State the causes, symptoms and treatment procedures for ocular hypertension (5)
10. Estimate the role of Metformin as an antidiabetic drug (5)
11. Mention some eyedrops & evaluate their role in treating allergies (5)
12. Estimate the diagnosis & treatment procedure of Angina Pectoris (5)

**OR**

Review the role of chemotherapy in treatment of cancer (5)

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