



BRAINWARE UNIVERSITY

Term End Examination 2023-2024
Programme – B.Sc.(CCT)-2022/B.Sc.(CCT)-2023
Course Name – Pharmacology
Course Code - BCCTC204
(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) Identify the opioid among the following:

- | | |
|-----------------|-------------|
| a) ERYTHROMYCIN | b) DIGOXIN |
| c) RIFAMPIN | d) MORPHINE |

(ii) Select wrong about Digoxin

- | | |
|---------------------------------------|---|
| a) Heart rate is decreased by digoxin | b) Digoxin has weak direct vasoconstrictor action |
| c) Digoxin causes water retention | d) Higher doses cause hyperapnoea |

(iii) Identify right about DIGOXIN

- | | |
|-------------------------------|---|
| a) Route of administration IM | b) Excreted by sweat |
| c) Plasma half life-40 hr | d) It is concentrated in the heart,skeletal muscle,liver ,kidney. |

(iv) Pharmacokinetics can be described as

- | | |
|---|--|
| a) The study of biological and therapeutic effects of drugs | b) The study of absorption, distribution, metabolism and excretion of drug |
| c) The study of mechanisms of drug action | d) The study of methods of new drug development |

(v) Identify the molecule responsible for vasodilation

- | | |
|-----------------|-------------------|
| a) Nitric oxide | b) Nitric DiOxide |
| c) Sodium | d) Sorbitate |

(vi) Identify the only vaccine with intradermal route of administration

- | | |
|---------|--------|
| a) HepB | b) OPV |
| c) IPV | d) BCG |

- (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) Identify the anticoagulant drug?
- | | |
|--------------|---------------|
| a) Warfarin | b) digoxin |
| c) albuterol | d) piperillin |
- (ix) 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 |
- (x) Select a common side effect of glucocorticoids?
- | | |
|----------------------|--------------------|
| a) Hypotension | b) Hypoglycemia |
| c) Immunosuppression | d) Hyperthyroidism |
- (xi) Identify an example of an H2 receptor antagonist?
- | | |
|-----------------|----------------|
| a) Ranitidine | b) Omeprazole |
| c) Pantoprazole | d) Simethicone |
- (xii) Recall the mechanism of action of azithromycin?
- | | |
|--|--|
| a) Inhibition of bacterial protein synthesis | b) Inhibition of bacterial cell wall synthesis |
| c) Inhibition of bacterial DNA replication | d) Inhibition of bacterial cell membrane synthesis |
- (xiii) Select a common side effect of benzodiazepines?
- | | |
|---------------------|-----------------|
| a) Dryness of mouth | b) Hypertension |
| c) Drowsiness | d) Tachycardia |
- (xiv) Identify the following side effects commonly associated with the use of nonsteroidal anti-inflammatory drugs (NSAIDs)?
- | | |
|----------------|-----------------|
| a) Bradycardia | b) Hypoglycemia |
| c) GI bleeding | d) Hypertension |
- (xv) Identify the vaccine is given to adolescent girls in India to protect them from cervical cancer?
- | | |
|----------------|----------------------|
| a) MMR vaccine | b) Varicella vaccine |
| c) HPV vaccine | d) Rotavirus vaccine |

Group-B

(Short Answer Type Questions)

3 x 5=15

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| 2. Classify Anti-asthmatic drugs. | (3) |
| 3. Write a short note on OPIOID analgesics. | (3) |
| 4. Define drug abuse. | (3) |
| 5. Define Anti-viral agents. Enumerate the drugs used against HIV infection | (3) |
| 6. Correlate with angina pectoris and say that which drugs are used in it. | (3) |

OR

- | | |
|---|-----|
| Explain the role of diuretics in heart failure. | (3) |
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Group-C

(Long Answer Type Questions)

5 x 6=30

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| 7. Define Pharmacokinetics. State the factors influencing drug absorption. Name two drugs that should be taken on an empty stomach | (5) |
| 8. Enumerate Anti-Histaminic drugs. Explain their mechanism of action and uses. | (5) |

9. Define Chemotherapy. Compare Bactericidal and Bacteriostatic agents with example. Classify anti microbial agents according to their spectrum of activity. (5)
10. Classify anticholinergic agents. Enumerate the uses and adverse effects of antimuscarinic agents. (5)
11. Define Conscious sedation. Explain the MoA of opioid analgesics. (5)
12. Explain the causes and management of chronic renal failure. Define End stage renal disease. (5)
- OR**
- Summarize the clinical features and treatment of hypothyroidism. (5)
