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BRAINWARE UNIVERSITY

Term End Examination 2025-2026

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

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 correct about DOBUTAMINE

- | | |
|--|---|
| a) DOBUTAMINE is used in severe congestive heart failure | b) It is more arrhythmogenic than adrenaline |
| c) It is considered to be relatively selective alpha 1 agonist | d) It does significant change in peripheral resistance and BP |

(ii) Identify correct about MEPHENTERAMINE

- | | |
|---|---------------------------------------|
| a) It produces both cardiac stimulation and vasoconstriction | b) It never cross blood brain barrier |
| c) it is used to prevent and treat hypertension due to spinal anaesthesia | d) It decreases cardiac output |

(iii) Select which is not treatment of Angle Closure Glaucoma

- | | |
|------------------------|-------------------------|
| a) Hypertonic mannitol | b) METOPROLOL |
| c) Acetazolamide | d) Topical beta blocker |

(iv) Trace false about BUMETANIDE

- | | |
|--|-------------------------------------|
| a) It is more lipid soluble | b) Oral bio-availability is 80-100% |
| c) It is preferred for intravenous use in severe CHF | d) Plasma half life is 60 min |

(v) Choose which is not correct about EPLERENONE

- | | |
|---|--|
| a) It is not suitable for long term use in hypertension | b) It has side effect of hyperkalaemia |
| c) It is well absorbed orally | d) It is indicated specifically in CHF |

(vi) Identify incorrect about H1 antihistaminics

- | | |
|---|-----------------------------------|
| a) These are well absorbed from parenteral routes | b) These are metabolized in liver |
| c) These are excreted in urine | d) Duration of action 2-3 hours |

(vii) Identify MAST CELL STABILIZERS for bronchial asthma

- a) Sodium cromoglycate
 - b) Montelukast
 - c) Terbutaline
 - d) Theophylline
- (viii) Identify which is false about use of calcium channel blockers
- a) Hypotension
 - b) Angina pectoris
 - c) Cardiac arrhythmias
 - d) cardiomyopathy
- (ix) Diuretic indicated to be used in pulmonary edema
- a) Furosemide
 - b) Metformin
 - c) Metolazone
 - d) Aspirin
- (x) State the drug of choice in newborn convulsions
- a) Phenytoin
 - b) Phenobarbital
 - c) Valproate
 - d) all of the these
- (xi) Identify the long acting insulin
- a) Aspart
 - b) Lispro
 - c) Glargine
 - d) NPH
- (xii) Select the mechanism of action of antihistamine drugs?
- a) Inhibition of histamine receptors
 - b) Inhibition of prostaglandin synthesis
 - c) Inhibition of acetylcholine receptors
 - d) Inhibition of serotonin receptors
- (xiii) Select the mechanism of action of benzodiazepines?
- a) They block the action of histamine
 - b) They activate opioid receptors
 - c) They bind to GABA receptors
 - d) They inhibit the reuptake of serotonin
- (xiv) Identify the side effect commonly associated with the use of antipsychotic medications?
- a) Sedation
 - b) Blurred vision
 - c) Confusion
 - d) Tinnitus
- (xv) Tell the vaccine that is given to newborns in India to protect them from tuberculosis.
- a) Polio vaccine
 - b) BCG vaccine
 - c) MMR vaccine
 - d) Rotavirus vaccine

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Name one Vasopressin analogue. Enumerate its uses. (3)
3. Define Primary and Secondary Hypertension. (3)
4. Write a note on Organophosphorus poisoning. (3)
5. Discuss about the clinical uses of PENICILLIN. (3)
6. Write the adverse effect of STREPTOMYCIN. (3)

OR

Write a short note on Fixed Drug Combination (FDC). Give examples. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain the various routes of drug administration. (5)
8. Write in detail about the drugs used in Bronchial asthma. (5)
9. Enumerate the uses and pharmacokinetics of Adrenaline. (5)
10. Enumerate the drugs used in "Pre-anaesthetic medication". (5)
11. Name the causative organism of Typhoid. Explain its clinical features and management. (5)
12. Explain the therapeutic uses of H-1 Blockers. Name a 1st gen antihistamine that is used as a pre-anesthetic medication. (5)

OR

Classify Anti-anginal drugs. Compare stable and unstable angina (5)