



BRAINWARE UNIVERSITY

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Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

Term End Examination 2025-2026

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

Course Name – Clinical Microbiology, Infection Control and Clinical Pharmacology

Course Code - BCCTC302

(Semester III)

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 the most option which most appropriately describes the constellation of events following HIV infection.
 - a) Acquired Immuno Deficiency Syndrome
 - b) Acquired Immuno Disruptive Syndrome
 - c) Acquired Immaculate Deficiency Syndrome
 - d) Acquired Cellular Deficiency Syndrome
 - (ii) Identify the correct statement about hepatitis B
 - a) Viral load in blood is extremely low usually.
 - b) It does not have a working vaccine yet
 - c) Surface antigen of the virus is used as a diagnostic marker.
 - d) Antivirals cannot decrease viral load.
 - (iii) Which of the following represent an ionotropic drug?
 - a) L-Ornithine
 - b) Dopamine
 - c) Insulin
 - d) Hypertonic saline
 - (iv) Which of the following statements relate to pathogenesis of malaria?
 - a) Fever is not associated with chills and rigor.
 - b) Amlodipine is used in malaria treatment.
 - c) Chloroquine is used for treatment of vivax malaria
 - d) Chloroquine is not the drug of choice in vivax malaria
 - (v) Which of the following indicate a true association with tetanus?
 - a) Opisthotonus is not a feature.
 - b) Disease is caused by Clostridium botulinum
 - c) Tetanospasmin causes violent muscle spasms
 - d) No vaccine for tetanus yet.
 - (vi) Choose the antimalarial drug amongst the following.
 - a) Valsartan
 - b) Artesunate
 - c) Metoprolol
 - d) Verapamil
 - (vii) HIV infection leads to immunocompromise. Select which one from options below justify the statement?
 - a) CD4 cell count diminishes
 - b) Opportunistic infections are common.

- c) Both 1 & 2
 d) None of these
- (viii) Name the method that ensures operations are carried out in a sterile environment:
 a) Sterilization methods
 b) Hand hygiene
 c) Antibiotic stewardship
 d) Efficient waste disposal
- (ix) Identify the primary benefit of implementing thorough infection control procedures in the ICU:
 a) Reduce costs
 b) Increase bed availability
 c) Reduce the risk of infections
 d) Shorten patient stay duration
- (x) Select the measure that involves maintaining the cleanliness of surfaces and the ICU environment:
 a) Efficient waste disposal
 b) Surface cleaning and disinfection
 c) Hand hygiene
 d) Sterilization methods
- (xi) Administration of corticosteroids are use to treat
 a) osteoporosis
 b) ARDS
 c) Liver disease
 d) glucoma
- (xii) The BCG vaccine is administered for immunity against
 a) Malaria
 b) Tuberculosis
 c) Jaundice
 d) Hepatitis
- (xiii) Select the main symptom of Tuberculosis
 a) Liquid formation
 b) Tubercle formation
 c) both (a) and (b)
 d) None of these
- (xiv) Select the right medication use to treat pulmonary edema
 a) antibiotics
 b) anti fungal
 c) diuretics
 d) All of these
- (xv) Select the right option for causative agent of Pneumonia.
 a) E. Coli
 b) Staphylococcus pneumoniae
 c) Streptococcus pneumonia
 d) COVID 19

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Complete the following statement by filling up the blank. Steroids can increase _____ level in blood. (3)
3. Give example of an antibiotic which is highly effective against gram positive cocci. (3)
4. Classify calcium channel blockers Enumerate noncardiac uses of calcium channel blockers (3)
5. Define First pass effect. (3)
6. Justify the statement " Chloroquine should be used with caution in patients with cardiac disease". (3)

OR

Justify the statement "The chance of acquiring HIV from needle prick is very low". (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Describe the structure of HIV with a suitable diagram. (5)
8. Classify antianginal drugs. Write the pharmacology of nitrovasodilators. (5)
9. Classify analgesics. (5)
10. Illustrate about adverse drug reactions? What are the types of adverse drug reaction. (5)
11. Illustrate the mechanism of action of local anesthesia. (5)
12. Justify the statement -Antihistaminic drugs can be used to prevent motion sickness highlighting their mechanism of action in motion sickness. (5)

OR
Write the mechanism of action of Antiseptic agents.

(5)

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12/11/2023
12:00 PM
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