



42957



BRAINWARE UNIVERSITY

Term End Examination 2025-2026

Programme – B.Sc. Nursing-2024

Course Name – Applied Microbiology and Infection Control including Safety

Course Code - MICR201

(Semester III)

Full Marks : 75

Time : 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable. Write answer of Section – A and Section –B in separate Answer booklet.]

Section : A

Marks : 38

Group-A

(Multiple Choice Type Question)

7 x 1=7

1. Choose the correct alternative from the following :

(i) Select the primary purpose of cryopreservation.

- | | |
|-----------------------------------|---|
| a) Rapid growth of microorganisms | b) Prolonged preservation of biological materials |
| c) Enhancing metabolic activities | d) Promoting chemical reactions |

(ii) State the type of bacteria requires high salt concentrations for growth?

- | | |
|----------------|-----------------|
| a) Acidophiles | b) Alkaliphiles |
| c) Halophiles | d) Neutrophiles |

(iii) Choose the phase of the microbial growth curve is characterized by a horizontal, flat line.

- | | |
|---------------------|----------------------|
| a) Lag phase | b) Exponential phase |
| c) Stationary phase | d) Death phase |

(iv) Write the type of immunoglobulin that are primarily involved in allergic reactions.

- | | |
|--------|--------|
| a) IgA | b) IgG |
| c) IgE | d) IgM |

(v) Select which immune response component is responsible for the secondary immune response.

- | | |
|-------------------|----------------|
| a) Plasma cells | b) Macrophages |
| c) Memory B cells | d) Neutrophils |

(vi) Identify which phylum do roundworms belong to.

- | | |
|--------------------|---------------|
| a) Platyhelminthes | b) Nematoda |
| c) Annelida | d) Arthropoda |

(vii) Predict which type of culture medium inhibits the growth of certain microorganisms while allowing the growth of others.

- | | |
|------------------------|---------------------|
| a) Differential medium | b) Selective medium |
| c) Enrichment medium | d) Complex medium |

Group-B
(Long Answer Type Questions)

1 x 10=10

10. Explain the care of Nasogastric tubes

(10)

OR

Explain in details about prevention of DVT

(10)

Group-C
(Short Answer Type Questions)

3 x 5=15

11. Discuss the role of nurses in biomedical waste management.

(5)

12. Explain Needle stick injury in details.

(5)

13. Summarize about the advantages of alcohol as disinfectants

(5)

OR

Explain Autoclave

(5)

Group-D
(Very Short Answer Type Questions)

3 x 2=6

14. List 5 moments for Hand Hygiene

(2)

15. Classify the dry heat sterilization

(2)

16. Discuss the components of Annual Health Check up

(2)
