

M.Sc. MICROBIOLOGY  
FOURTH SEMESTER  
MEDICAL MICROBIOLOGY  
MMB-402

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

( Objective )

Time: 15 mins.

Marks: 10

Choose the correct answer from the following:

1 × 10 = 10

- If an organism persists but remain inactive for long period of time usually for years is known as:
  - Intermittent latency ELISA
  - Quiscent Latency
  - Reservoir RID
  - Immunofluorescence
- In toxigenicity AB represents as:
  - A -Binding subunit, B- Toxic
  - AB toxic effect
  - A- Toxic , B- Binding subunit
  - AB- Binding subunit
- All of the following pathogens are the major congenital pathogens that are transmitted from infected mother to baby, Except?
  - Treponemapallidum*
  - Zika virus*
  - Herpesvirus*
  - Clostridium perfringens*
- Which of the following agent is used to prevent Malaria?
  - Mebendazole
  - Chloroquine
  - Inactivated vaccine
  - Zinc tablet
- The cell wall of gram-positive bacteria may contribute to the development of septic shock. Identify the component which is most associated with the induction of septic shock.
  - Capsular protein
  - Endotoxin
  - Peptidoglycan
  - Phospholipid
- Tubercle formation in chest is a symptom for which type of microorganism?
  - Salmonella typhi*
  - E coli*
  - Mycobacterium tuberculosis*
  - Klebsiella
- Which colour dustbin should you use when disposing medical waste?
  - Green
  - Red
  - Yellow
  - Blue
- How long hands should be washed for after wetting hands and applying soap?
  - 5 seconds
  - 2-3 minutes
  - For as long as you feel appropriate
  - 15-20 seconds
- What is the definition of a 'single use' item?
  - An item that can be used by a single patient, multiple times
  - An item that can only be used once before it needs disinfecting
  - An item that can only be used once before being disposed of
  - An item that can only be used for a single day

10. Surveillance programmes for healthcare-associated infection should be conducted at:
- a. Community level
  - b. Facility, provincial or national level
  - c. Individual pathogen level
  - d. Individual patient level

**( Descriptive )**

Time : 1 hr. 15 mins.

Marks : 25

[ Answer question no.1 & any two (2) from the rest ]

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|---|----|
| 1. Explain any two fungal diseases with reference to causative agent, life cycle and prophylaxis.               | 5  |
| 2. Define Bioterrorism. Explain the methods used for controlling an infectious disease and measuring frequency. | 10 |
| 3. Explain the Surveillance and control of community and hospital infections.                                   | 10 |
| 4. Explain the etiology of:<br>a) Measles<br>b) TB  | 10 |
| 5. Enlighten on the notion of fever of unknown origin.  | 10 |

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