



**BR-4572**

Seat No. \_\_\_\_\_

**D. M. L. T. Examination**

**April - 2021**

**General Microbiology, Bio-Medical Micro & Serology**

Time : 3 Hours]

[Total Marks : 100

- Instructions :** (1) Figures on right side indicate full marks.  
(2) Draw neat and clean diagram wherever necessary.  
(3) Write section I and II in separate answer book.

**SECTION - I**

- 1** Write short notes on any **Three** : **18**  
(a) Robert Koch.  
(b) Collection and transport of specimen for microbiological investigation.  
(c) Chemical Disinfectants.  
(d) Define biomedical waste. Write classification and management of biomedical waste.
- 2** Write short notes on any **Three** : **18**  
(a) Immunoglobulins  
(b) Hypersensitivity  
(c) Universal work precautions  
(d) ELISA Test.
- 3** Write answers in 2-3 sentences. **14**  
(a) Hanging drop preparation  
(b) Enumerate two differences between Exotoxin and Endotoxin.  
(c) Name two techniques used for anaerobiosis.  
(d) Name four Motile bacteria.  
(e) Define immunity.  
(f) Name sterilization control used in autoclave.  
(g) What is differential staining and its uses.

## SECTION - II

- 4** Write short notes on any **Three** : **18**
- (a) Laboratory diagnosis of Tuberculosis.
  - (b) Laboratory diagnosis of P.falciparum malaria.
  - (c) Life cycle and pathogenicity of Ascaris lumbricoides.
  - (d) Polio Virus.
- 5** Write short notes on any **Three** : **18**
- (a) Live bacterial Vaccine.
  - (b) Laboratory diagnosis of HIV Infection.
  - (c) Candidiasis.
  - (d) Role of Microbiology lab in Hospital infection control program.
- 6** Write answers in 2-3 sentences : **14**
- (a) Name two parasites infecting brain.
  - (b) Catalase Test.
  - (c) Name two selective media and their uses.
  - (d) What is zoonotic disease ? Give its examples.
  - (e) Indicators used in Autoclave to check sterility.
  - (f) Name two bacteria which are oxidase positive.
  - (g) What is TORCH test.
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