

**The West Bengal University of Health Sciences**  
**M.Sc. MLT in Microbiology 1st Year August- September, 2022**  
**Examination**

Time: 3 hrs



Subject: Basic Microbiology

Full Marks: 80

*Attempt all questions*

1. What is LD bodies? Write down the macroscopic and microscopic difference between amoebic and bacillary dysentery? 2+8
2. Name the species of Plasmodium and differentiate their morphological features. 4+6
3. Describe the pathogenesis and lab diagnosis of cholera. 5+5
4. Name some viruses which can cause hemorrhagic fever. Describe pathogenesis and lab diagnosis of any of them. 2+4+4
5. Write short notes of the following: 5 x 8
  - a) Importance of Host-pathogen interaction
  - b) Growth curve of bacteria
  - c) TEM
  - d) RDT in the diagnosis of malarial parasite
  - e) Difference between Exotoxin and Endotoxin
  - f) Sterilization.
  - g) HIV.
  - h) Vitamin: Classification.

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Attempted all the questions:

20×4=80

1. Perform Gram-staining of the supplied A or B.

20

[Principle (5) + Procedure (10) + Interpretation (5)]

2. Enumerate the bacteria from a supplied sample.

20

[Principle (5) + Procedure (10) + Interpretation (5)]

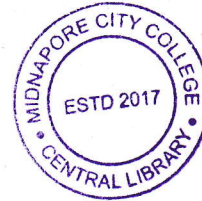
3. Carry out Widal test of the supplied sample A or B.

20

[Principle (5) + Procedure (10) + Interpretation (5)]

4. Viva-Voce.

20



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