

**2203000206026002**  
**EXAMINATION FEBRUARY-MARCH 2024**  
**BACHELOR OF SCIENCE (SIXTH SEMESTER)**  
**MICROBIOLOGY-XVIII (MB-602- EPIDEMIOLOGY AND**  
**MEDICAL MICROBIOLOGY)-LEVEL 2**

[Time: As Per Schedule]

[Max. Marks: 50]

**Instructions:**

**1. Fill up strictly the following details on your answer book**

- a. Name of the Examination : **BACHELOR OF SCIENCE (SIXTH SEMESTER)**
  - b. Name of the Subject : **MICROBIOLOGY-XVIII (MB-602- EPIDEMIOLOGY AND MEDICAL MICROBIOLOGY) LEVEL 2**
  - c. Subject Code No : **2203000206026002**
2. Sketch neat and labelled diagram wherever necessary.
  3. Figures to the right indicate full marks of the question.
  4. All questions are compulsory.

Seat No:

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Student's Signature

**Q.1 Give specific answers:**

**8**

- 1) Define ID 50 and LD50.
- 2) Define AB toxin. Give one example.
- 3) How do humans get infected with Histoplasmosis?
- 4) Elaborate: Caseous lesions and Ghon complexes.
- 5) State full form of SSSS. State the function of toxin produced by it.
- 6) Which chemokine receptors are required in early and later infection stages to cause AIDS in macrophages?
- 7) Give full form of: ETEC, EHEC.
- 8) State organism responsible for Botulism. Name the toxin produced by it.

**Q.2 Explain/comment on any two of the following. 14**

- 1) Variety of toxins are produced by microorganisms.
- 2) Various ways are available for microorganisms to transmit respiratory tract disease in humans.
- 3) *Leptospira interrogans* can be identified in laboratories by various techniques.

**Q.3 Discuss any two of the following. 14**

- 1) Explain Typical Pneumonia in detail.
- 2) Discuss structure, pathogenicity and treatment of HIV infection in detail.
- 3) State causative agent of cholera infection with pathogenesis, Lab diagnosis and treatment.

**Q.4 Write short notes on any two of the following. 14**

- 1) Remote sensing and Geographic information system.
- 2) Aspergillosis.
- 3) Hepatitis.

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