

## B.Sc. Sem.-6 (Rep) Examination

CC-309

Microbiology

October-2025

Time : 2-30 Hours}

[Max. Marks : 70

1. All questions are compulsory.
2. Draw figures wherever necessary.
3. Figures on right side indicate marks

- Q.1 Define normal microbiota. Discuss its importance, origin and establishment of normal flora. Describe the normal microbiota of any two body parts with suitable examples (14)
- OR**
- Q.1 (A) Write a note on: Viral pathogenicity (07)  
(B) Differentiate between proteins (exotoxins) and LPS (endotoxins) (07)
- Q.2 Define epidemiology. Describe the epidemiological types of infections with suitable examples. Give an overview of epidemiological markers. (14)
- OR**
- Q.2 (A) Write a note on types of vaccines with hazards (07)  
(B) Discuss Nosocomial infections (07)
- Q.3 Write a detailed note microscopy-based methods used for pathogen diagnosis (14)
- OR**
- Q.3 (A) Define specimen. Explain the types of specimens and their collection methods (07)  
(B) Explain pathological changes in blood and body fluids due to microbial infections (07)
- Q.4 Discuss aetiology, symptoms, transmission diagnosis and treatment of: AIDS (14)
- OR**
- Q.4 (A) Describe tuberculosis with respect to its aetiology, symptoms, transmission diagnosis and treatment (07)  
(B) Write a note on typhoid (07)
- Q.5 Answer in short (Any seven) (14)
- 1 What is gnotobiotic life? Who created first gnotobiotic animal?
  - 2 What is the role of capsule in evading pathogenesis?
  - 3 Define: Virulence and antigenicity
  - 4 What is immunity? Enlist types of immunity
  - 5 What is mortality rate? How will you calculate it?
  - 6 Name two hazards of recombinant vaccine
  - 7 Write any two characteristics of the transport medium used for specimen?
  - 8 Enlist two uses of computers in clinical microbiology
  - 9 Name two immunological test used for pathogen identification
  - 10 Write causative agent and symptoms of Swine flu
  - 11 Name parasite and vector responsible for malaria infection?
  - 12 What are negri bodies? Give significance of negri bodies.

