



**K22U 2326**

Reg. No. : .....

Name : .....

**V Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/  
Improvement) Examination, November 2022  
(2019 Admission Onwards)  
CORE COURSE IN MICROBIOLOGY  
5B08 MCB : Bacterial Diseases**

Time : 3 Hours

Max. Marks : 40

***Instruction : Draw diagrams wherever necessary.***

**SECTION – A**

Answer **all** questions in **one** or **two** sentences. **Each** question carries **1** mark.

1. Differentiate biological vector and mechanical vector.
2. Describe coagulate test.
3. What is 'watercan perineum' ?
4. What is BACTEC MGIT ?
5. What is RPR test ?
6. Define  $LD_{50}$ .

**(6×1=6)**

**SECTION – B**

Write briefly on **any six** of the following. **Each** question carries **2** marks.

7. Nosocomial infection.
8. Streptolysins.
9. Diphtheria toxin.
10. WIDAL test.

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11. Bubonic plague.
12. Laboratory diagnosis of leprosy.
13. Classification of *Leptospira*.
14. Epidemic typhus. **(6×2=12)**

SECTION – C

Write short essays on **any four** of the following. **Each** question carries **3** marks.

15. Methods of transmission of infectious diseases.
16. Pathogenesis of anthrax.
17. Diarrhoeagenic *E.coli*.
18. Culturing and antimicrobial susceptibility testing of *Mycobacterium tuberculosis*.
19. Pathogenesis of syphilis.
20. Pathogenicity of *Staphylococcus aureus*. **(4×3=12)**

SECTION – D

Write essays on **any two** of the following. **Each** question carries **5** marks.

21. Write a note on classification of *Streptococci*. Add a note on pathogenicity and laboratory diagnosis of *Streptococcus pyogenes* infections.
  22. Describe the characteristics and pathogenesis of cholera. Write on laboratory diagnosis and epidemiology of cholera infection.
  23. Write a note on pulmonary and extrapulmonary tuberculosis. Discuss etiology, epidemiology and laboratory diagnosis of tuberculosis.
  24. Write a note on morphological and cultural characteristics of *Chlamydiae*. Add a note on pathogenicity of *Chlamydiae*. **(2×5=10)**
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