

THE APOLLO UNIVERSITY

Saketa, Chittoor, AP

AHS- IV Semester End Examination, June, 2024

PAPER -I – MLTT 2504 - SYSTEMIC BACTERIOLOGY

Time: 3 hours

Max. Marks: 60

Section –A (10x2=20 marks)

Answer all Questions with Short Answers

1. Write the cultural characteristics of *Staphylococcus aureus*.
2. Explain MRSA.
3. Write a note on Faucial diphtheria.
4. List the components of Anthrax toxin.
5. Write any four important features exhibited by *Vibrio Cholera*
6. List any four virulence factors of *Pseudomonas aeruginosa*.
7. What is Congenital Syphilis?
8. Define Actinomycosis.
9. What is the causative agent of whooping cough? Describe its pathogenesis
10. Write a note on Prophylaxis of Brucellosis.

Section –B (5X8=40 marks)

Answer all Questions either A or B in 400 words each

11. A) Describe the classification, morphology, cultural characteristics, and biochemical reactions of *Staphylococcus aureus*.

OR

- B) Describe the morphology, cultural and colony characteristics, and biochemical reactions of *Neisseria gonorrhoea*.

12. A) Classify *Escherichia Coli*. Write a note on its Virulence factor responsible for causing the infection.

OR

- B) Discuss the predisposing factors, pathogenesis, and clinical features of *Escherichia coli*. Write a note on the laboratory diagnosis of urinary tract infection.

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13. A) What are the salient features of *Vibrio cholera*? Describe the morphology and Pathophysiology of Cholera disease.

OR

B) Discuss the pathogenesis and laboratory diagnosis of pulmonary tuberculosis.

14. A) What are the general characteristics of *Treponema Pallidum*? Describe the virulence factors, pathogenesis, and clinical features of Syphilis.

OR

B) What are the diseases caused by *Rickettsiaceae*? Briefly describe their pathogenesis, sequence of events and clinical features. Write a note on Weil Felix test.

15. A) Explain the Morphology, virulence factor, pathogenesis, and clinical features of *Bordetella pertussis*.

OR

B) Describe the laboratory diagnosis, treatment, prevention, and control of *Legionella pneumophila*.
