

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002
B.Sc. (MLT) SECOND YEAR DEGREE SUPPLEMENTARY EXAMINATIONS: JULY 2025
MICROBIOLOGY- I

Time: 3 Hours

Max Marks: 80

Note: Answer all questions

Give Diagrammatic representation wherever necessary

Write an essay on any TWO of the following:

2 X 10 = 20

1. Classify antigen-antibody reaction. Write in detail about the principle and uses of ELISA.
2. Describe the morphology of Mycobacterium Tuberculosis. Write in detail about the laboratory diagnosis of Pulmonary tuberculosis.
3. Enumerate various bacteria causing Urinary tract infections. Write about the laboratory diagnosis of UTI.

Write a short note on any SIX of the following:

6 X 5 = 30

4. Anaerobic culture methods.
5. Laboratory diagnosis of Syphilis.
6. Bacterial gene transfer.
7. Widal test.
8. Antimicrobial susceptibility testing.
9. Immunoglobulin G.
10. Hospital acquired infections.
11. Type I Hypersensitivity reactions.

Write briefly on the following:

10 X 3 = 30

12. Koch's postulates.
13. List the differences between cell wall of gram positive and gram negative bacteria.
14. Transport media.
15. Coagulate test.
16. Morphology of Corynebacterium diphtheriae.
17. Rheumatoid factor.
18. Pasteurisation.
19. Name the bacteria causing food poisoning.
20. DPT vaccine.
21. List the diseases caused by Staphylococcus.
