

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES
WARANGAL, TELANGANA STATE – 506 002**

M.D/ M.S DEGREE SUPPLEMENTARY EXAMINATIONS: MAY,2025

**MICROBIOLOGY
PAPER-II
(SYSTEMIC BACTERIOLOGY)**

Time: 3 Hours

Max Marks: 100

Note: Answer all questions

Give Diagrammatic representation wherever necessary

Write a short essay on the following:

10 X 10 = 100

1. Classify non tuberculous mycobacteria (NTM) with example. Discuss the pathogenesis, clinical features and laboratory diagnosis of rapidly growing NTM. Add a note on the method of speciation of NTM
2. Classify Spirochaetes. Discuss about the morphology and laboratory diagnosis of Leptospira
3. List the diarrheagenic Escherichia coli. Discuss the pathogenesis and laboratory diagnosis of EHEC.
4. Classify Streptococci, discuss the pathogenesis and laboratory diagnosis of Rheumatic fever.
5. Enumerate agents causing community acquired pyogenic infections. Discuss the pathogenesis and laboratory diagnosis of Melioidosis
6. Discuss the pathogenesis and laboratory diagnosis of Clostridium tetani. Write a note on prevention of tetanus
7. Enumerate bacterial causes of sexually transmitted infections. Discuss pathogenesis, and laboratory diagnosis of Chlamydia trachomatis
8. List the agents causing ventilator associated pneumonia. Discuss the pathogenesis and of VAP and laboratory diagnosis of Acinetobacter baumannii. Write a note on mechanism of drug resistance in Acinetobacter baumannii
9. Discuss the laboratory diagnosis of vancomycin resistant enterococci (VRE). Write a note on the measures taken to prevent the spread of VRE in a hospital
10. List the various zoonotic bacterial infections. Discuss in detail about pathogenesis, clinical features and laboratory diagnosis of Acute Brucellosis.
