

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

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

MICROBIOLOGY

PAPER-III

(VIROLOGY, MYCOLOGY AND PARASITOLOGY)

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 Human herpes viruses. Describe the pathogenesis, lab diagnosis and treatment of Herpes simplex virus infection.
2. List the vector borne Arboviruses. Describe the epidemiology, pathogenesis, clinical and laboratory diagnosis of Dengue fever.
3. Define emerging and re-emerging infections. Enumerate the emerging re-emerging viral infection in India. Describe the viral characteristics, pathogenesis, laboratory diagnosis and prevention of Nipah virus.
4. Enumerate opportunistic parasitic infection in AIDS patient. Write in detail about the immunopathogenesis and laboratory diagnosis of Toxoplasma gondii in HIV patients.
5. List the opportunistic protozoan infection of the gastrointestinal tract. Discuss the life-cycle, laboratory diagnosis and treatment of cryptosporidiosis.
6. Classify filarial parasites. Describe life cycle, laboratory diagnosis and prophylaxis of Wuchereria bancrofti.
7. Role of serology in diagnosis of fungal infections.
8. Enumerate the infections caused by Aspergillus species. Discuss pathogenesis and laboratory diagnosis of invasive aspergillosis.
9. Discuss antifungal susceptibility testing methods for Candida species with their merits and demerits.
10. Discuss epidemiology, pathogenesis, laboratory diagnosis of Pneumocystis jirovecii.
