

# Rajiv Gandhi University of Health Sciences, Karnataka

## III Year B.Sc. (M.L.T) Degree Examination – 20-May-2025

**Time: Three Hours**

**Max. Marks: 100 Marks**

### **MICROBIOLOGY – III (RS-4)**

**Q.P. CODE: 3283**

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary

#### **LONG ESSAYS (Second Question Choice)**

**2 x 10 = 20 Marks**

1. Discuss morphology, pathogenesis and laboratory diagnosis and prophylaxis of Rabies.
2. Discuss and classify antibody. Discuss the structure and function of Immunoglobulins.

**OR**

Classify Immunity. Discuss mechanism of Innate Immunity.

#### **SHORT ESSAYS (Question No 5 & 10 choice)**

**10 x 5 = 50 Marks**

3. Enumerate dimorphic fungi and discuss briefly laboratory diagnosis of dimorphic fungi.
4. Laboratory diagnosis of Epstein- Barr virus.
5. Pathogenesis and laboratory diagnosis of Dengue.

**OR**

Bacteriophage.

6. Pathogenesis and prophylaxis of Rubella.
7. Mycotoxins.
8. Inclusion bodies.
9. ELISA.
10. Mechanism of autoimmunity.

**OR**

Mycetoma.

11. Prophylaxis of Polio.
12. Structure and pathogenesis of Influenza virus.

#### **SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Antigens.
14. Name the three genera of dermatophytes.
15. Slide culture technique.
16. Hepatitis A virus.
17. Local Immunity.
18. Draw a neat labelled diagram of HIV.
19. Candidiasis.
20. Oncogenic viruses.
21. Cell culture.
22. Aspergillosis.

\*\*\*\*\*