

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B.Sc. (MLT) Degree Examination - 27-Nov-2023**

**Time: Three Hours**

**Max. Marks: 80 Marks**

**MICROBIOLOGY – PAPER III (RS-3)**

**Q.P. CODE: 3160**

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

**LONG ESSAY (Any Two)**

**2 x 10 = 20 Marks**

1. Discuss the pathogenesis and laboratory diagnosed of Sporotrichosis.
2. Discuss the morphology, pathogenesis and laboratory diagnosis of Rabies virus. Add a note on prophylaxis of Rabies.
3. Define and classify immunity. Write in detail about innate immunity.

**SHORT ESSAY (Any Six)**

**6 x 5 = 30 Marks**

4. Antigenic drift and shift.
5. Discuss type-IV hypersensitivity reactions.
6. Structure and function of IgM.
7. Differences between T-cells and B-cells.
8. Polio vaccines.
9. Discuss the pathogenesis and laboratory diagnosis of Cryptococcosis.
10. Immunofluorescence.
11. Zygomycosis.

**SHORT ANSWERS (Any Ten)**

**10 x 3 = 30 Marks**

12. Opportunistic diseases in AIDS.
13. KOH mount.
14. Define dimorphic fungi with two examples.
15. Production of monoclonal antibodies.
16. Hapten.
17. Oral thrush.
18. Name any three fungi culture media.
19. Name any three autoimmune disorders.
20. Name any three viral haemorrhagic fever.
21. Name any three uses of ELISA.
22. Name any three RNA viruses.
23. Define biological vectors. Give two examples.

\*\*\*\*\*