

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (MLT) Degree Examination - 29-Oct-2025

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. List the hypersensitivity reactions. Write in detail about Type-1 Hypersensitivity reactions.
2. Enumerate the viruses causing hepatitis. Discuss the morphology, pathogenesis, laboratory diagnosis and prophylaxis of Hepatitis-B virus.
3. Enumerate the infections caused by Candida species. Describe the laboratory diagnosis of Candidiasis.

SHORT ESSAY (Any Six)

6 x 5 = 30 Marks

4. ELISA – principle, types and applications.
5. Cultivation of viruses.
6. Herpes-Zoster virus – pathogenicity and laboratory diagnosis.
7. Discuss in detail about pathogenesis and laboratory diagnosis of rabies.
8. Differences between primary and secondary immune responses.
9. Passive immunity.
10. Slide culture technique.
11. Aspergillosis.

SHORT ANSWERS (Any Ten)

10 x 3 = 30 Marks

12. Dengue virus – pathogenicity.
13. LPCB mount.
14. Classify fungi based on diseases caused.
15. Name any three DNA viruses.
16. Name any three precipitation reactions.
17. Name any three viral diarrhoeal diseases.
18. Name any three antiretroviral drugs.
19. Antigen presenting cells.
20. Name any three fungi causing skin infections.
21. Mycotoxins.
22. Natural killer cells.
23. Name any three serological tests for the diagnosis of HIV infection.
