Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (M.L.T) Degree Examination – 29-Oct-2026

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. Describe the morphology, laboratory diagnosis and prophylaxis of Hepatitis B infection.
2. Define Immunity. Classify Immunity. Elaborate acquired immunity with examples.
   OR
   List the arboviral diseases seen in India. Describe the pathogenesis and laboratory diagnosis of Dengue.

SHORT ESSAYS (Question No 5 & 10 choice) **10 x 5 = 50 Marks**

3. Structure and functions of IgG.
4. Rotavirus.
5. Non-specific immunity.
   OR
   Penicillosis.
6. Antigenic shift and antigenic drift.
7. Precipitation reactions.
8. Mumps virus.
9. List the Dimorphic fungi and discuss briefly laboratory diagnosis of Dimorphic fungi.
10. Describe pathogenesis and laboratory diagnosis of Cryptococcus neoformans.
    OR
    Mucormycosis.
11. Type I hypersensitivity.
12. Describe morphology and add a note on mode of spread and prevention of varicella zoster.

SHORT ANSWER **10 x 3 = 30 Marks**

13. Cytomegalovirus.
14. Draw a neat labelled diagram of HIV.
15. Differentiate between OPV and IPV.
16. Rabies vaccine.
17. IgA-structure and function.
18. Lactophenol Cotton Blue.
19. Natural Killers cells.
20. Mention three fungi causing opportunistic infections.
21. Bacteriophage.
22. Passive immunity.

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