

Rajiv Gandhi University of Health Sciences, Karnataka
Third Year B.Sc. Medical Laboratory Technology Degree Examination - 18 May
2023



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. Define and classify hypersensitivity. Describe in detail type IV hypersensitivity
2. List RNA viruses. Describe the pathogenicity and laboratory diagnosis of human immunodeficiency virus infection

OR

Classify Fungi. Discuss in detail pathogenicity and laboratory diagnosis of candidiasis

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Monoclonal antibodies - principles and applications
4. Cryptococcus neoformans – pathogenicity and lab. diagnosis
5. Zygomycosis

OR

Mycetoma

6. Dermatophytes – pathogenicity
7. T lymphocytes
8. Immunofluorescence
9. Prophylaxis of Polio
10. Pathogenesis and laboratory diagnosis of measles

OR

Prophylaxis for rabies

11. Mechanism of innate immunity
12. Antigenic shift and antigenic drift

SHORT ANSWER

10 x 3 = 30 Marks

13. Serological markers of hepatitis B virus
14. Biological functions of complement
15. Negri bodies
16. Slide culture
17. Name three autoimmune diseases
18. Plasma cell
19. Name three antiviral agents
20. Name three cell lines
21. Draw a neat diagram of IgG
22. Name three dimorphic fungi
