

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**Third Year B.Sc. Medical Laboratory Technology Degree Examination – 03-Jun-2024**

**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. Discuss type II hypersensitivity
2. Enumerate hepatotropic. Describe the pathogenesis, laboratory diagnosis and prophylaxis of Hepatitis B virus

**OR**

Classify Picornavirus. Describe the pathogenesis, laboratory diagnosis and prophylaxis of polio

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

**10 x 5 = 50 Marks**

3. Candidiasis
4. IgM
5. Classical complement pathway
6. Chickungunya – pathogenicity and lab diagnosis
7. Prophylaxis of rabies
8. Tissue culture for cultivation of viruses
9. Mechanism of innate immunity
10. Histoplasmosis – pathogenicity and lab diagnosis

**OR**

- COVID 19 – pathogenicity and prevention
11. Precipitation reaction – mechanism and application
  12. Herpes simplex virus – pathogenicity

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Classification of fungus based on morphology
14. Super antigen
15. Draw a neat labelled diagram of HIV
16. Name three viruses which causes congenital infection
17. Rhinosporidiosis
18. Rotavirus
19. Interferon
20. Name three mycotoxins produced by fungus
21. Allograft
22. Antigenic drift in influenza virus

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