

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**II Year B.Sc. Renal Dialysis Technology Degree Examination – 07-May-2026**

**Time: Three Hours**

**Max. Marks: 50 Marks**

**Applied aspects of Microbiology (RS-3)**

**Q.P. CODE: 3403**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

**(Note: Both QP Codes 3301 and 3403 are to be answered within total duration of 3 hours)**

**LONG ESSAYS (Answer any One)**

**1 x 10 = 10 Marks**

1. Enumerate the organisms that cause Urinary tract infections. Give a detailed account about the laboratory diagnosis.
2. Explain parasites which cause opportunistic infections.

**SHORT ESSAYS (Answer any Five)**

**5 x 5 = 25 Marks**

3. Describe morphology and laboratory diagnosis of Hepatitis A virus.
4. Pathogenesis and lab diagnosis of Candidiasis.
5. Describe pathogenesis Coagulase negative staphylococci.
6. Collection of blood for culture.
7. Write in detail about laboratory diagnosis of Varicella Zoster virus.
8. Catheter related infections.

**SHORT ANSWER (Answer any FIVE)**

**5 x 3 = 15 Marks**

9. Serological markers for Hepatitis B virus.
10. Write Gram stain procedure.
11. Antibiotic sensitivity testing.
12. Modes of transmission of HIV virus.
13. Name three personal protective equipment.
14. Name three culture methods used in the laboratory.

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