

# Rajiv Gandhi University of Health Sciences, Karnataka

## II Year B.Sc. Anaesthesia Technology & Operation Theatre Technology

Degree Examination – 23-May-2025

Time: Three Hours

Max. Marks: 50 Marks

### Applied Microbiology – (Sec B)

**Q.P. CODE: 3400**

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

**(Note: Both QP Codes 3399 and 3400 are to be answered within total duration of 3 hours)**

#### LONG ESSAYS (Answer any one)

**1 x 10 = 10 Marks**

1. Enumerate the viruses causing hepatitis. Explain the mode of transmission and laboratory diagnosis of Hepatitis A Virus. Add a note on prevention of Hepatitis A infection
2. Define and classify sterilisation. Describe in detail about gaseous method of sterilisation

#### SHORT ESSAYS (Answer any five)

**5 x 5 = 25 Marks**

3. Catheter associated Urinary Tract Infection (UTI)
4. Infections caused by Salmonella Typhi
5. Vancomycin resistant enterococci – detection and prevention
6. Air sampling techniques
7. Human deficiency virus (HIV) – Morphology and mode of transmission
8. Hepatitis B virus – morphology and universal precautions to prevent Hepatitis B infection

#### SHORT ANSWER (Answer any five)

**5 x 3 = 15 Marks**

9. Name three pathogen causing diarrhoea
10. Name three drug resistant bacteria
11. Mode of transmission of Hepatitis C infection
12. Name three opportunistic infections in HIV patients
13. Antibiotic sensitivity testing
14. Disease caused by V-Z (Varicella-Zoster) virus

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