

**Q.P. CODE: 113010**

**Reg. No: .....**

**First Year B.Sc Nursing Degree Supplementary Examinations  
February 2025  
Microbiology**

**(2016 Scheme)**

**Time: 3 Hrs**

**Max. Marks: 75**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

**Essay: (12)**

1. Enumerate the causative organisms of enteric fever. Discuss the pathogenesis, clinical features and laboratory diagnosis of enteric fever (2+2+2+6)

**Short essays: (2x7=14)**

2. Describe in detail the pathogenesis and laboratory diagnosis of hepatitis B infection (2+5)
3. Describe the clinical features and laboratory diagnosis of candidiasis (2+5)

**Short notes: (5x5=25)**

4. Drug Resistance in bacteria
5. Cultivation of viruses.
6. Life cycle of malarial parasite
7. Describe in detail the principle, types and applications of ELISA
8. Write in detail about Dry heat sterilization

**Answer briefly: (3x4=12)**

9. Bio medical waste Management
10. Antimicrobial susceptibility testing
11. Laboratory diagnosis of pulmonary tuberculosis

**Differentiate between: (3x4=12)**

12. Type I hypersensitivity and Type IV hypersensitivity
13. Gram positive cell wall and Gram negative cell wall
14. Bacillary dysentery and Amoebic dysentery

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