

**Q.P. CODE: 113010**

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

**First Year B.Sc Nursing Degree Supplementary Examinations  
January 2024  
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. Define sterilization and discuss different types of sterilisation techniques. Briefly describe the applications of autoclave in a hospital ((3+6+3=12).

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

2. Discuss Nosocomial infections and their methods of prevention (3+4)
3. Describe the Widal test and its diagnostic utility (4+3)

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

4. Draw and label the structure of a bacterial cell with functions of its organelles
5. Define and classify agglutination with examples
6. Describe the etiology, pathogenesis and laboratory diagnosis of intestinal amoebiasis
7. Live attenuated vaccines.
8. Classify disinfectants with one example each

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

9. Role of nurse in biomedical waste management
10. Define culture media and their types
11. Indian ink preparation for demonstration of capsule of bacteria

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

12. Flagella and Fimbria
13. Source and Reservoir of infection
14. Gram negative and Gram positive bacteria

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