

**First Year Post Basic B.Sc Nursing Supplementary Examinations  
January 2022**

**Microbiology**

**(2016 Scheme)**

**Time: 3 Hours**

**Total 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*

**Long Essay: (12)**

1. Define sterilization. Classification of different methods of sterilization. Describe hot air oven in terms of its use and precautions to be taken. (2+4+4+2)

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

2. Describe the types and factors affecting immunity (4+3)
3. Explain the clinical features and laboratory diagnosis of tetanus. Briefly mention the preventive measures. (3+2+2)

**Write short notes on: (5x5=25)**

4. Universal precautions
5. Dermatophytes
6. Transmission of HIV infection
7. Life cycle of Malaria
8. Bacterial growth curve

**Answer briefly: (4x4=16)**

9. Prophylaxis for Hepatitis B virus infection
10. Toxins and enzymes of Staphylococcus aureus
11. Lepra reaction
12. Labelled diagram of Immunoglobulin

**Differentiate between (2x4=8)**

13. Gram positive and Gram negative bacterial cell wall
14. Active and passive immunity