

**First Year Post Basic B.Sc Nursing Supplementary Examinations**  
**April 2025**

**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. Enumerate the various methods of sterilization used in hospital settings. Draw a neatly labelled diagram of autoclave explaining its working principle and sterilization controls used. (5+2+2+3)

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

2. Describe the role of nurse in hospital infection control committee and add a note on its functioning. (3+4)
3. Describe the pathogenesis and lab diagnosis of tuberculosis. (3+4)

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

4. Laboratory diagnosis of malaria
5. Dermatophytosis-agents and laboratory diagnosis
6. Classification of hypersensitivity reactions
7. Laboratory diagnosis of syphilis
8. Agents causing food poisoning and lab diagnosis of any one of them.

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

9. Widal test
10. Draw and label growth curve of bacteria
11. Principle of gram staining
12. Anaerobic culture media

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

13. Immunoglobulin M. and Immunoglobulin G
14. Dengue virus and Hepatitis B virus

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