

**First Year Post Basic B.Sc Nursing Supplementary Examinations
February 2024**

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 hospital-acquired infections. Write in detail about Hospital Infection Control Committee and various infection control measures in health care setting. (2+2+8)

Short Essays: (2x7=14)

2. List the staining methods used in bacteriology. Give suitable examples. Write the principle and importance of gram staining (2+2+3)
3. Name the viruses causing hepatitis. Discuss the laboratory diagnosis of Hepatitis B virus (2+5)

Write short notes on: (5x5=25)

4. Needle stick injuries
5. Collection and transport of sample for blood culture
6. Dengue virus
7. Cryptococcosis
8. Roundworm infections

Answer briefly: (4x4=16)

9. Prophylaxis for rabies virus infection
10. Antimicrobial susceptibility testing for bacteria
11. IgG antibody
12. Widal test

Differentiate between (2x4=8)

13. Exotoxin and Endotoxin
14. Peripheral blood smear findings of *P. vivax* and *P. falciparum*
