

**First Year Post Basic B.Sc Nursing Regular/Supplementary
Examinations April 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. Describe the pathogenesis of Staphylococcus aureus. Explain the specimen collection and laboratory diagnosis of Staphylococcus. (6+2+4)

Short Essays: (2x7=14)

2. Classify diarrheagenic Escherichia coli. Briefly describe the clinical syndromes caused by Escherichia coli. (4+3)

3. Define infection. Enumerate the sources and modes of transmission of infection (2+2+3)

Write short notes on: (5x5=25)

4. Widal test
5. Cultivation of viruses
6. Labelled diagram of Human Immunodeficiency Virus (HIV)
7. Precipitation reaction
8. Life cycle of entamoeba histolytica

Answer briefly: (4x4=16)

9. Infections caused by herpes simplex virus
10. Nutritional requirement of bacteria
11. Clinical stages of syphilis
12. Sterilization control for autoclave

Differentiate between (2x4=8)

13. Immediate and delayed hypersensitivity reaction
14. Hepatitis A and hepatitis B virus