



**First Year B.Sc Nursing Degree Regular/Supplementary Examinations
August 2021
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. Describe the modes of transmission of Human Immunodeficiency Virus (HIV) infection. Describe in detail the laboratory diagnosis of HIV infection. List the opportunistic infections associated with HIV infection. (3+6+3)

Short essays: (2x7=14)

2. Laboratory diagnosis of syphilis. Enumerate the clinical stages of syphilis. (5+2)
3. Enumerate the causative agents of enteric fever. Describe the laboratory diagnosis of enteric fever. (1+6)

Short notes: (5x5=25)

4. Laboratory diagnosis and prevention of tetanus
5. Candida albicans
6. Type IV hypersensitivity reaction
7. Dengue virus infection
8. Microfilaria

Answer briefly: (3x4=12)

9. H₁N₁ (swine flu) infection
10. Role of nurse in hospital infection control
11. Bacterial spore

Differentiate between: (3x4=12)

12. Exotoxins and endotoxins
13. Live attenuated vaccines and killed vaccines
14. Gram positive and gram negative bacteria