

**Q.P. CODE: 113010**

**Reg. No: .....**

**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. H<sub>1</sub>N<sub>1</sub> (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

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