

## 2010 Scheme

**Q.P. CODE: 103010**

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

### **First Year B.Sc Nursing Degree Supplementary Examinations January 2024**

#### **Microbiology**

**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*

#### **Essays:**

**(2x10=20)**

1. Define Healthcare associated infections. Describe the various routes of transmission, prevention and control of health care associated infections. Enumerate the role of nurse in hospital infection control. (2+3+3+2)
2. Describe the pathogenesis of pulmonary tuberculosis. Discuss the sample collection and laboratory diagnosis in detail. (3+3+4)

#### **Short notes:**

**(7x5=35)**

3. Define biomedical waste. Classify biomedical waste according to latest biomedical waste management guidelines.
4. Post exposure prophylaxis following needle stick injury.
5. Classification and laboratory diagnosis of dermatophytes.
6. Pathogenesis of Tetanus.
7. Morphology and pathogenesis of HIV virus.
8. Laboratory diagnosis of Cryptococcal meningitis.
9. Intestinal amoebiasis-Clinical features and lab diagnosis

#### **Answer briefly:**

**(10x2=20)**

10. RPR-Rapid plasma Reagin test for syphilis
11. Principle of gram staining
12. Antibiotic sensitivity testing-disk diffusion method
13. Collection, transport and storage of CSF sample
14. ELISA-principle and application
15. Transport media
16. Prophylaxis of Hepatitis B infection
17. Draw and label Immunoglobulin M (IgM)
18. Enumerate four opportunistic infections in HIV.
19. Name four dimorphic fungi.

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