

Q.P. CODE: 115016

Reg. No: .....

**First Year B.Sc Perfusion Technology Degree Regular/Supplementary  
Examinations February 2025**

**Microbiology**

**(2016 Scheme)**

**Time: 3 Hrs**

**Max. Marks: 80**

- *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 table/diagrams/flow charts wherever necessary*

**Essays:**

**(2x10=20)**

1. Describe the morphology of Hepatitis B virus. Discuss the laboratory diagnosis and prophylaxis of Hepatitis B virus (2+5+3)
2. Define sterilization. Enumerate the different methods of moist heat sterilization. Describe the working principle and uses of an autoclave. (2+3+5)

**Short notes:**

**(6x5=30)**

3. Infection produced by candida and its laboratory diagnosis.
4. Laboratory diagnosis of pulmonary tuberculosis
5. Standard precautions
6. Biomedical waste management practices
7. ELISA
8. Tape worm infection

**Answer briefly:**

**(10x3=30)**

9. Differential staining
10. Anaerobic culture methods
11. Pneumococcal meningitis
12. Anti-rabies vaccines
13. Artificial passive immunity
14. Dermatophytes
15. VDRL Test
16. High level disinfectants
17. Bacterial growth curve
18. Polio vaccines

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