

**Q.P. CODE: 115016**

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

**First Year B.Sc Perfusion Technology Degree Supplementary  
Examinations July 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. Write briefly about Laboratory diagnosis, Active Immunisation and General prophylactic measures of Hepatitis B viral infection. (5+3+2)
2. Define and name four Hospital Acquired Infections (HAI). What are the modes of transmission. Briefly discuss about HAI control measures. Mention four functions of Hospital Infection Control Committee. (3+1+2+4)

**Short notes:**

**(6x5=30)**

3. Intradermal Rabies Vaccine (IDRV)
4. VDRL test
5. What is the organism causing Tetanus. Briefly discuss about immunization.
6. Segregation of biomedical waste.
7. Mention five differences between cell wall of Gram Negative and Gram Positive bacteria.
8. Laboratory diagnosis of extra intestinal amoebiasis.

**Answer briefly:**

**(10x3=30)**

9. Combined vaccination with one example.
10. Which is the causative organism of Cryptococcosis.  
Mention about the direct detection laboratory method.
11. Acid Fast bacilli (AFB) staining.
12. Passive Immunity.
13. Mention three transport media.
14. Mention three soft tissue infections due to Streptococcus pyogenes.
15. Mention three causes of Gastroenteritis.
16. Mention three methods of sterilization.
17. Mention three rapid tests for HIV detection.
18. Describe the method of urine collection in a patient with Foley's catheter.

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