

[LS 117]

NOVEMBER 2020  
(OCTOBER 2020 SESSION)

Sub. Code: 2014

**M.D. DEGREE EXAMINATION**  
**BRANCH IV – MICROBIOLOGY**

**PAPER I – GENERAL MICROBIOLOGY AND IMMUNOLOGY**

*Q.P. Code: 202014*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Essay:**

**(2 x 15 = 30)**

1. Elaborate on Non-PCR based amplification methods.
2. Describe the mechanism of transplant rejection. Add a note on tissue typing methods and cross-matching.

**II. Short notes:**

**(10 x 5 = 50)**

1. Fluorescent Microscopy.
2. Plasma sterilization.
3. Gene transfer.
4. Special stains in Bacteriology.
5. DNA Microarray.
6. Hashimoto's thyroiditis.
7. CSSD.
8. Anti-idiotypic antibodies.
9. NK cells.
10. Interleukins.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. Use of Biphase medium in Blood culture.
2. Citrated Plasma is not suitable for Coagulase test.
3. Role of Blocking antibodies in cancer treatment.
4. HLA B-27 in diagnosis of auto-immune disease.

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