

[LL 1017]

OCTOBER 2017

Sub. Code: 9125

**M.Sc. MOLECULAR VIROLOGY EXAMS  
FIRST YEAR  
PAPER I – BASIC MICROBIOLOGY, VIROLOGY AND IMMUNOLOGY**

*Q.P. Code : 289125*

**Time: Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Classify the diseases caused by viruses in humans and discuss in detail the prophylaxis and therapy of viral infections.
2. Describe antigen-antibody reactions and write in detail about neutralization tests.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Immunoglobulin E.
2. Principle advantages and disadvantages of NMR spectroscopy for protein and nucleic acid studies.
3. Morphology and functions of lymphocytes.
4. Technique and applications of Immune histo-chemistry.
5. Spectrum of action and usage of Ethylene oxide.
6. Features of BSL-IV laboratory and the organisms that can be tested there.
7. Restriction endo-nucleases.
8. Explain with example – multiple reading frames.
9. Interferons.
10. 'T' cell independent antigens.

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