

[LH 0415]

OCTOBER 2015

Sub. Code: 9125

**M.Sc., MOLECULAR VIROLOGY**  
**(for Candidates admitted from 2009-2010 Batch onwards)**  
**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. Define and classify sterilization. Write in detail about sterilization by moist heat.
2. Write in detail invitro tissue culture methods. Include a note on nutritional requirements and cytopathic effects.

**II. Write notes on :**

**(10 x 6 = 60)**

1. Hot air oven.
2. Phase contrast microscopy.
3. Sterilization by radiation.
4. Monoclonal antibodies – Principles of application.
5. Requirements of molecular virology laboratory.
6. Flow cytometer.
7. Immuno surveillance.
8. Experimental models in Antigen Presenting Cells (APC).
9. Organ culture method.
10. Cell growth and differentiation factors.

\*\*\*\*\*