

[LF 1014]

OCTOBER 2014

Sub. Code: 9125

**M.Sc., MOLECULAR VIROLOGY DEGREE EXAMS
FIRST YEAR**

(for Candidates admitted from 2009-2010 onwards)

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. Write a note on structure of Immunoglobulin with diagram. What are the classes of Immunoglobulins and enumerate on them?
2. Write in detail on replication of viruses. Write a note on protein biosynthesis and post translational modifications.

II. Write notes on:

(10 x 6 = 60)

1. Fluorescence microscopy – principles and applications
2. Steam under pressure – application in sterilisation
3. Karyotyping
4. Media used in tissue culture
5. Histocompatibility complex
6. Antigen presenting cells
7. Short note on stem cells and applications
8. Immuno chromatography
9. Real time PCR
10. Suckling mice
