

[LC 0413]

APRIL 2013

Sub. Code: 9129

**M.Sc MOLECULAR VIROLOGY EXAMINATION
SECOND YEAR**

(for Candidates admitted from 2009-2010 onwards)

PAPER II – APPLIED EPIDEMIOLOGY AND APPLIED ENTOMOLOGY

Q.P. Code : 289129

**Time : 3 hours
(180 Min)**

Maximum : 100 marks

I. Elaborate on:

(2x20=40)

1. Explain in detail the steps involved in an outbreak investigation.
2. Define xenodiagnosis. Explain the methods and applications of xenodiagnosis.

II. Write notes on :

(10X6=60)

1. Sample size determination.
2. Merits and demerits of case control study.
3. Establishing surveillance system for viral diseases.
4. Active and passive surveillance systems.
5. Vector control in urban setting.
6. Life cycle of Plasmodium.
7. Differences in the features of Aedes, Anopheles and Culex mosquitoes.
8. Transgenic vectors.
9. Importance of Geographical Information System in the epidemiology of vector borne diseases.
10. Criteria for selection of an effective insecticide.
