

[LL 1017]

OCTOBER 2017

Sub. Code: 9129

**M.Sc. MOLECULAR VIROLOGY EXAMS
SECOND YEAR
PAPER II – APPLIED EPIDEMIOLOGY AND APPLIED ENTOMOLOGY**

Q.P. Code : 289129

Time : Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Steps and strategies of outbreak investigations.
2. Transmission of arboviruses and their control.

II. Write notes on:

(10 x 6 = 60)

1. Merits and demerits of case control and cohort studies.
2. Applications of epidemiological tools.
3. GIS in vector and arbovirus surveillance.
4. Vector control strategies for urban settings.
5. Molecular characterization of vectors.
6. Inhibition of transovarial transmission of viruses.
7. Mechanism of insecticide resistance.
8. Importance of mosquito genetics.
9. Methods of Xeno-diagnosis.
10. Transgenic vectors.
