

[LF 1014]

OCTOBER 2014

Sub. Code: 9126

**M.Sc., MOLECULAR VIROLOGY DEGREE EXAMS  
FIRST YEAR  
(for Candidates admitted from 2009-2010 onwards)  
PAPER II – EPIDEMIOLOGY BIostatISTICS AND ENTOMOLOGY**

*Q.P. Code : 289126*

**Time : Three hours**

**Maximum : 100 marks**

**I. Elaborate on :**

**(2 x 20 = 40)**

1. Describe classification of mosquito. Explain life cycle of mosquitoes and their role in transmission of Dengue, Chikungunya and Japanese encephalitis.
2. What is meant by sampling? Describe various sampling methods.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Types of variables
2. Distinguish between *Anopheline* and *Culicine* mosquitoes
3. Interim analysis
4. Methods of randomization
5. Analytical study designs
6. Population at risk; Population attributable risk
7. Short note on allergic and toxic reactions to insect venom
8. Methods of collecting ectoparasites from mammals
9. Random errors and systematic errors
10. What is meant by test and level of significance?

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