

[LP 1019]

OCTOBER 2019

Sub. Code: 2862

**M.Sc. BIOSTATISTICS EXAMS**

**FIRST YEAR**

**PAPER II – EPIDEMIOLOGY AND DESIGN OF EXPERIMENTS**

*Q.P. Code : 282862*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Classify and explain various study designs used in Epidemiology.
2. A new vaccine has been produced against HIV, What are the phases of evaluation of this vaccine? How will you conduct the second phase of this evaluation?

**II. Write notes on:**

**(10 x 6 = 60)**

1. Factorial Design.
2. Intention to treat analysis.
3. Likelihood ratio of diagnostic test.
4. Masking in Clinical trials.
5. Hardy Weinberg equilibrium and its application.
6. Randomized Block Design (RBD).
7. Bias and Random Error.
8. Validity of the Measure.
9. Population attributable risk.
10. Advantages & disadvantages of matching in case control design.

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