

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

[AHS 1023]

**OCTOBER 2023**

**Sub. Code: 3001**

**M.Sc. EPIDEMIOLOGY  
FIRST YEAR (From 2011-2012 onwards)  
PAPER I – PRINCIPLES OF EPIDEMIOLOGY AND BIostatISTICS**

*Q.P. Code: 313001*

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate notes on:**

**(2 x 20 = 40)**

1. What is Diagnostic Test? Explain about: Sensitivity, Specificity, Positive and Negative Predictive Values with suitable example.
2. Describe in detail the descriptive epidemiology and its significance.

**II. Write Short Notes on:**

**(10x6 = 60)**

1. Define surveillance. Explain Sentinel Surveillance with an example.
2. Explain the types of Blinding with an example of a study in which it is most essential?
3. Ethics in Medical Research.
4. Write a short note on Sample registration system.
5. Compare and contrast Pathogenicity, Virulence and Incidence with an example.
6. Discuss “Human Development Index” as a measure of well-being.
7. Notification of diseases.
8. Type I error in tests of significance.
9. Survival analysis.
10. Active immunity.

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