

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**  
**M.Sc( MEDICAL LAB TECHNOLOGY) DEGREE EXAMINATION –**  
**January 2021**  
**First Year**  
**EPIDEMIOLOGY AND BIostatISTICS**

Three Hours

Maximum: 100 marks

**I. Write an Long essay on:** **(3 x 20 = 60)**

1. Definition, calculation and interpretation of the measures of frequency of diseases and mortality.
2. Causal Association & Various types of epidemiological study designs
3. Paired comparison t test

**II. Write short essay on :** **(4 x 10 = 40)**

4. How do you calculate diagnostic accuracy of a test?
5. Measures of accuracy and precision
6. What is Sampling distribution
7. What does statistically significant mean for the null hypothesis?

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