

[LL 1017]

OCTOBER 2017

Sub. Code: 1255

**M.Sc. MEDICAL LABORATORY TECHNOLOGY EXAMS  
FIRST YEAR  
PAPER V – EPIDEMIOLOGY AND BIostatISTICS**

*Q.P. Code : 281255*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain the various criteria in causal association epidemiology.
2. Explain the concept of dispersion in statistical analysis. Describe its various measures and discuss their merits and demerits.

**II. Write notes on**

**(10 x 6 = 60)**

1. Explain various types of epidemiological study design.
2. Discuss about the important role of epidemiology in health science.
3. Describe the term mortality and morbidity and state any two rates in each and its use.
4. State the use of positive predictive value (PPV) and negative predictive value (NPV) in a diagnostic test.
5. Define the various measures of central tendency and state the relationship among mean, median and mode.
6. What is normal distribution? Describe its properties in details.
7. What you understand by paired t-test? Explain its uses in health science.
8. Explain the term regression analysis.
9. Describe the situation of using Mann Whitney – U test
10. State the importance of confidence interval in health research.

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