

[LP 1019]

OCTOBER 2019

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. Write an essay on how you will conduct a Randomized Controlled Trial.
2. What are the tests of significance? Write about the chi-square test in detail.

**II. Write notes on** **(10 x 6 = 60)**

1. Why screening is needed? Write shortly on types and uses of screening.
2. Write on Adjusted or Standardized Mortality Rates.
3. Define Specific Death Rate and Case Fatality Rate. Explain these two with one example for each.
4. ROC Curve
5. Hypothesis and its importance.
6. ANOVA
7. What test you will use to compare two means of two independent data sets? Explain.
8. Mention the Criteria to establish Causal Association as pointed out by Bradford Hill.
9. Explain the various sources of Epidemiological Data.
10. Define and explain Relative Risk, Attributable Risk and Population Attributable Risk with suitable example.

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