

[LG 0415]

APRIL 2015

Sub. Code: 3001

**M.Sc., EPIDEMIOLOGY DEGREE EXAMINATION
FIRST YEAR
PAPER I – PRINCIPLES OF EPIDEMIOLOGY AND BIostatISTICS**

Q.P. Code : 313001

Time : Three hours

Maximum : 100 marks

I. Elaborate on :

(2 x 20 = 40)

1. a) What are the differences between Experimental studies and Observational studies?
b) Discuss selection of controls in case-control studies.
2. a) Discuss Direct and Indirect standardization.
b) Differentiate between Karl Pearson correlation method and Spearman rank correlation method.

II. Write notes on :

(10 x 6 = 60)

1. Morbidity rates
2. Reliability and Validity
3. Likelihood ratio in Diagnostic test
4. Blinding in research
5. Mixed designs
6. Construction of life table
7. Co-efficient of variation
8. Probability
9. Poisson distribution
10. Mann-whitney U test
