

MARCH 2008

[KS 234]

Sub. Code : 3001

M.Sc. (Epidemiology) DEGREE EXAMINATION.

Part I

Paper I -- PRINCIPLES OF EPIDEMIOLOGY AND  
BIOSTATISTICS

Q.P. Code : 313001

Time : Three hours      Maximum : 100 marks

Answer ALL questions.

I. Essay :

(2 × 20 = 40)

(1) What is Bias? Explain the different types of Bias with examples. What are the methods available for controlling Bias?

(2) Describe the concept of statistical significance. What are the uses, misuses and limitations of tests of significance? Comment on clinical significance and statistical significance.

II. Write Short notes on :

(10 × 6 = 60)

(1) Causal association.

(2) Retrospective cohort study and nested case control study.

(3) Space time cluster studies.

(4) Likelihood ratio in diagnostic tests.

(5) Standardized Mortality Ratio (SMR).

(6) Correlation coefficient.

(7) Pictorial representation of data.

(8) Survival analysis and its applications in epidemiological studies.

(9) Cluster sampling method.

(10) Confounding and effect modification.