

APRIL 2003

[KI 234]

Sub. Code : 3001

4. Write briefly on : (30)

- (a) Predictive value of positive test and treatment threshold
- (b) Correlation coefficient
- (c) Standardized Mortality Ratio
- (d) Simple Random Sampling.

M.Sc. (Epidemiology) DEGREE EXAMINATION.

Part I

Paper I — PRINCIPLES OF EPIDEMIOLOGY AND
BIO-STATISTICS

Time : Three hours Maximum : 100 marks

Answer ALL questions.

1. Describe in detail how you will plan and carry out a Double Blind Randomized Controlled Trial for evaluating the efficacy of a new chemotherapy for hypertension. What are the ethical issues involved? (20)
2. Write briefly on : (30)
 - (a) Measures of disease frequency
 - (b) Concepts and applications of standard deviation and standard error
 - (c) Stratified analysis and confounding bias
 - (d) Applications of survival analysis.
3. What is cross sectional study? What are the applications? Discuss the descriptive and analytical aspects of cross sectional studies. (20)