

[KK 234]

APRIL 2004

Sub. Code : 3001

M.Sc. (Epidemiology) DEGREE EXAMINATION.

Part I

Paper I — PRINCIPLES OF EPIDEMIOLOGY AND
BIOSTATISTICS

Time : Three hours Maximum : 100 marks

Sec. A & B : Two hours and Sec. A & B : 80 marks
forty minutes

Section C : Twenty minutes Section C : 20 marks

Answer Sections A and B in the **SAME** Answer Book.

Answer Section C in the answer sheet provided.

SECTION A

1. Discuss the Bradford Hill's criteria for establishing causal association from observational studies. (15)
2. Describe what you understand by probability distribution and discuss standard normal curve and its applications. (15)

SECTION B

3. Write short notes on : (10 × 5 = 50)
 - (a) Incidence density
 - (b) Sensitivity and specificity of a screening test

- (c) Disadvantages of screening.
 - (d) Incubation period
 - (e) Active immunity
 - (f) Direct standardization
 - (g) Confidence interval
 - (h) F-test
 - (i) Type I error in tests of significance
 - (j) Survival analysis.
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