

AUGUST 2005

[KN 234]

Sub. Code : 3001

SECTION B — (10 × 5 = 50 marks)

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**

Sec. C : Twenty minutes Sec. C : 20 marks

Answer Sections A and B in the SAME answer book.

Answer Section C in the answer sheet provided.

Answer ALL questions.

SECTION A — (2 × 15 = 30 marks)

1. What do you understand by natural history of diseases? Discuss how this knowledge helps in prevention of diseases with suitable examples. (15)
2. What are the tests of significance? Describe the chi-square test in detail with its merits and demerits. (15)

3. Write short notes on :
- (a) Measures of mortality
 - (b) Meta analysis
 - (c) ROC curve
 - (d) Period of communicability
 - (e) Passive immunity
 - (f) Indirect standardization
 - (g) Standard deviation
 - (h) One way ANOVA
 - (i) Principles in sample size calculation
 - (j) Time-series analysis.