

MARCH 2006

[KO 231]

Sub. Code : 2976

M.Sc. (Non-clinical) DEGREE EXAMINATION.

Final

Branch V — Microbiology

**Paper I — GENERAL BACTERIOLOGY AND
IMMUNOLOGY**

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. Define sterilisation. List the methods of sterilisation. Write in detail about the autoclave. (15)
2. Name various antigen – antibody reactions. Describe in detail the principle and application of precipitation reaction. (15)

SECTION B — (10 × 5 = 50 marks)

3. Write short notes on :

- (a) Immunoglobulin G
- (b) Counter immuno electrophoresis

- (c) Robert Koch
- (d) Antibiotic sensitivity testing
- (e) Pili
- (f) Anaerobic media
- (g) Oxidase test
- (h) Alternative pathway of complement
- (i) Elisa
- (j) Heterophile antigens.