

VII. Write short answers :

- 1 What is monoclonal antibody ?
- 2 What is complement ?
- 3 Define nosocomial infection ? Write *two* examples.
- 4 What is HLA (Human Leucocyte Antigen) ?

(4 × 1 = 4 marks)

VIII. Write short notes on :

- 1 Elisa test.
- 2 Bacterial spore.
- 3 Leptospirosis.

(3 × 2 = 6 marks)

SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, MAY 2006

MICROBIOLOGY—Paper I—(GENERAL BACTERIOLOGY, IMMUNOLOGY,
SYSTEMIC BACTERIOLOGY)

Time : One Hour and a Half

Maximum : 32 Marks

*Answer Sections A-II and B in separate answer-books.
Draw diagrams wherever necessary.*

Section A-II

III. Draw and label :

- 1 Bacterial spore.
- 2 Methylene blue staining of *Cocynobacterium diptheriae*.

(2 × 1 = 2 marks)

IV. Short answer questions :

- 1 What is transport media ? Give *two* examples.
- 2 What is plasmid ?
- 3 What is natural killer cells ?
- 4 Enumerate the bacteria causing food poisoning.

(4 × 1 = 4 marks)

V. Write short notes on :

- 1 T lymphocytes.
- 2 Blood culture.
- 3 Autoclave.

(3 × 2 = 6 marks)

Section B

VI. A 42 year old man admitted in the surgical ward with history of motorbike accident and had a crushing injury of the left thigh. After 24 hours, he developed fever, on examination left thigh was markedly swollen and painful. Crepitus was felt.

- 1 What is your probable diagnosis ?
- 2 What are the causative organisms ?
- 3 What will you find in the gram stain of the fluid from the wound ?
- 4 What microbiological investigations will you do to confirm the diagnosis ?

(2 + 2 + 4 + 2 = 10 marks)

Turn over