

G 1877

(Pages : 2)

Reg. No.....

Name.....

SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, JUNE 2009

MICROBIOLOGY—Paper I (GENERAL BACTERIOLOGY, IMMUNOLOGY AND SYSTEMATIC BACTERIOLOGY)

(Sections A-II and B)

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 Gram staining of CSF in pneumococcal meningitis.
- 2 Structure of Immunoglobulin.

(2 × 1 = 2 marks)

IV. Write short answers :

- 1 What is transformation ?
- 2 What is Inspissation ?
- 3 What is transport media ? Give *two* examples.
- 4 What is haptens ? Give examples ?

(4 × 1 = 4 marks)

V. Write short notes on :

- 1 Gaseous disinfectants.
- 2 HLA antigen.
- 3 Mycoplasma pneumonia.

(3 × 2 = 6 marks)

Section B

VI. A forty-five year old man was admitted with complaints of cough with blood tinged sputum, evening rise of temperature and loss of weight for more than a month. Chest radiograph showed cavity in the right lobe.

- 1 What is the most probable clinical diagnosis ?
- 2 How will you confirm the diagnosis in the laboratory ?
- 3 Write briefly on the pathogenesis of this condition.
- 4 How will you prevent this disease ?

(1 + 4 + 4 + 1 = 10 marks)

Turn over

VII. Write short answer questions :

- 1 What is coagulase test ?
- 2 Koch's postulates.
- 3 What is satellitism ?
- 4 What is malignant pustule ?

(4 × 1 = 4 marks)

VIII. Write short notes on :

- 1 CD₄ cells.
- 2 Type-II hypersensitivity.
- 3 Elisa test.

(3 × 2 = 6 marks)