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G 5243-B (Pages : 2) Reg. No.....

Name.....

SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, APRIL 2007

Faculty of Medicine

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

Time : One Hour and a Half Maximum : 32 Marks

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

Section A-II

III. Draw and label :

1 Secretory IgA.

2 Gram stained smear in Meningococcal meningitis (C.S.F.)

(2 × 1 = 2 marks)

IV. Short answer questions :

1 *Four* culture media for mycobacterium tuberculosis.

2 *Four* common infections caused by staphylococcus aureus.

3 What is M.H.C. restriction ?

4 *Four* differences between 'T' and 'B' lymphocytes.

(4 × 1 = 4 marks)

V. Write short notes on :

1 Secondary Immune response.

2 Lysogenic conversion.

3 Bacillary Dysentery.

(3 × 2 = 6 marks)

Section B

VI. Read the following paragraph and answer the questions :—

A three-year old boy was admitted with fever, headache, projectile vomiting and fits. On examination, child febrile, neck stiffness present, altered sensorium seen. Lumbar puncture yielded turbid CSF under pressure.

1 What is the clinical diagnosis ?

2 Name *three* primary bacterial pathogens causing this clinical picture in a 3 year old.

3 Name *two* rapid methods for diagnosis of the above condition.

Turn over

4 How will you collect a sample of C.S.F., transport and store it ?

5 Describe the laboratory diagnosis required for the confirmation of the above case.

6 What is/are the drugs of choice ? Add a note on prophylaxis ?

(½ + 1½ + 1 + 1 + 5 + 1 = 10 marks)

VII. Short answer questions :

1 What is significant bacteriuria and name *two* common urinary pathogens ?

2 Define monoclonal antibodies. Name *two* clinical applications.

3 Tetanus prophylaxis in newborn.

4 Transduction and its clinical significance.

(4 × 1 = 4 marks)

VIII. Write short notes on :

1 Tuberculin test.

2 Blood culture.

3 Scrub typhus.

(3 × 2 = 6 marks)