

**C 28904****(Pages : 2 + 2 = 4)****Name.....****Reg. No.....****SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, AUGUST 2012****MICROBIOLOGY—Paper I****(New Scheme)****Time : Two Hours****Maximum : 40 Marks***Answer all the questions.**Answer Sections A and B in separate answer-books.**MCQs should be answered first in the response sheet provided.***Section A**

- I. Multiple Choice Questions. Single response type 16 (separate sheets attached). $(16 \times \frac{1}{2} = 8 \text{ marks})$
- II. Draw and label :
- 1 Elek test.
 - 2 HLA Antigens.
- $(2 \times 1 = 2 \text{ marks})$
- III. Short answer questions :
- 1 Widal test.
 - 2 Transport media.
- $(2 \times 2 = 4 \text{ marks})$
- IV. Write short notes on :
- 1 Hot air oven.
 - 2 Lab diagnosis of H. Influenza.
- $(2 \times 3 = 6 \text{ marks})$

Section B

- V. 40 year old male admitted in the hospital with complaints of watery diarrhoea and vomiting one day duration. On examination severe dehydration.
- (a) What is your provisional diagnosis ?
 - (b) What is the causative agent ?
 - (c) What is the pathogenesis ?
 - (d) Describe the Lab diagnosis.
 - (e) What is the treatment ?

 $(1 + 1 + 3 + 3 + 2 = 10 \text{ marks})$ **Turn over**



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MICROBIOLOGY—Paper I

(New Scheme)

I. MULTIPLE CHOICE QUESTIONS

Note.—(1) Do not write anything on the question paper.

(2) Write your register number in the answer-sheet provided.

(3) Select **one** most appropriate response and encircle the corresponding alphabet against each question number in the answer-sheet provided.

1. Indian Ink staining is :
(A) Negative staining. (B) Differential stain.
(C) Used for Gonococci. (D) Demonstrates the flagella.
2. Hot air oven is used for sterilizing the following items **except** :
(A) Liquid paraffin. (B) Culture media.
(C) Fats. (D) Sulphonamide powder.
3. The following organism cause food poisoning **except** :
(A) Bacillus cereus. (B) Clostridium perfringens.
(C) Clostridium botulinum. (D) Salmonella typhi.
4. Necrotising enterocolitis is caused by the following antibiotics **except** :
(A) Vancomycin. (B) Clindamycin.
(C) Ampicillin. (D) Tetracycline.
5. Example for an enrichment medium is :
(A) Mac Conkey's medium. (B) Selenite F. Broth.
(C) Wilson and Blair medium. (D) Stuarts' medium.
6. Direct microscopy is useful for all **except** :
(A) Pulmonary TB. (B) Primary syphilis.
(C) Brucellosis. (D) Gonorrhoea.
7. Common method of drug resistance in Enterobacteriaceae is :
(A) Mutation. (B) Lysogeny.
(C) Transduction. (D) Conjugation.
8. Congenital infection can be diagnosed by estimating :
(A) IgA. (B) IgG.
(C) IgE. (D) IgM.



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VI. Short answer questions :

- 1 Group B streptococci.
- 2 Cell mediated immunity.

(2 × 2 = 4 marks)

VII. Write short notes on :

- 1 Complement.
- 2 Lab diagnosis of syphilis.

(2 × 3 = 6 marks)