\mathbf{C}^{-}	3	2	8	4	7

(Pages: 2+1+1=4)

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Name	*********	 ********

Reg. No.

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

MICROBIOLOGY-Paper I

(New. Scheme)

Time: Two Hours

Maximum: 40 Marks

Answer Section A and B in separate answer-books.

Answer all the questions.

Draw diagrams wherever necessary.

MCQs should be answered first in the response sheet provided.

Section A

- I. Multiple Choice Questions. Single response type 8 (separate sheet attached). $(8 \times \frac{1}{2} = 4 \text{ marks})$
- II. Match the following. Single response type 8 (separate sheet attached). $(8 \times \frac{1}{2} = 4 \text{ marks})$
- III. Draw and label:
 - 1 Immunoglobulin G.
 - 2 Streptococcus pyogenes in pus.

 $(2 \times 1 = 2 \text{ marks})$

- IV. Short answer questions:
 - 1 Define Hapten.
 - 2 Define Sterilization.
 - 3 What are monoclonal antibiotics?
 - 4 What is no socomial infection?

 $(4 \times 1 = 4 \text{ marks})$

- V. Write short notes on:
 - 1 VDRL test.
 - 2 Bacterial toxins.
 - 3 Immune response.

 $(3 \times 2 = 6 \text{ marks})$

Section B

- VI. A 25 year old man has high grade fever of 5 days duration. On examination, he has spleenomegaly and rose spots. Of late, he has been communing food from local restaurants since the past two weeks:
 - 1 What is the probable diagnosis? Mention the etiological agents.
 - 2 What is the pathogenenis of this disease ?

- 3 What investigations would you recommend in this case? Why?
- 4 How will you treat such a case?
- 5 What is the prophylaxis?

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

VII. Short answer questions:

- 1 What is DPT?
- 2 What is atopy?
- 3 What is bacterial growth curve?
- 4 What is Weil's disease?

 $(4 \times 1 = 4 \text{ marks})$

VIII. Write short notes on:

- 1 Dark ground microscope.
- 2 Autoclave.
- 3 TRIC agents.

(A)

Thymus,

MICROBIOLOGY—Paper I

I. MULTIPLE CHOICE QUESTIONS

(3) Select one most appropriate response and encircle the corresponding alphabet against

(B) Lymph nodes.

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

each question number in the answer-sheet provided.

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

1. Which one of the following is a central lymphoid organs?

	(C)	Spleen.	(D)	Liver.			
2.	2. Which one of the following is the largest immunoglobulin?						
	(A)	Ig G.	(B)	Ig M.			
	(C)	Ig A.	(D)	Ig E.			
3.	Protein	Protein A is a group specific antigen found in the cell wall of:					
	(A)	Streptococcus pueumoniae.	(B)	Neisseria gonorrhoea.			
	(C)	Staphylococcus aureus.	(D)	Corynebacterium diphtheriae.			
4.	Which one of the following bacteria DOES NOT produce pigments?						
	(A)	Streptococcus pneumoniae.	(B)	Serratia marcescens.			
	(C)	Pseudomonas aeruginosa.	(D)	Staphylococcus aureus.			
5 .	The etiological agent of chaneroid is:						
	(A)	Treponema pallidum.	(B)	Haemophilus ducreyi.			
	(C)	Haemophilus aegypticus.	(D)	Chlamydia trachomatis			
6. Which one of the following mycobacteria causes swimming pool granuloma:							
	(A)	Mycobacterium marinum.	(B) .	Mycobacterium ulcerans.			
	(C)	Mycobacterium kansasii.	(D)	Mycobacterium fortuituim.			
7. Weil's disease is caused by:							
	(A)	Leptospira grippotyphosa.	(B)	Leptospira icterohaemorrhagiae.			
	(C)	Leptospira canicola.	(D)	Leptospira pomona.			
8.	Which one of the following tests are used to differentiate between Eltor and classical vibrios?						
	(A)	Sucrose fermentation.	(B)	Chick red cell agglutination.			
	(C)	Indole test.	(D)	Sensitivity to tetracycline.			
				narked evaluation copy of CVIS(8 × ½ = 4 marks)			

MICROBIOLOGY—Paper I

II. Match the following:

A

- A 1 Penicillin
 - 2 Ciprofloxacin
 - 3 Erythromycin
 - 4 Amphotericin

A

- B 1 Mantoux test
 - 2 Escherichia coli
 - 3 Weil Felix test
 - 4. Bacillus anthracis

B

- (a) Macrolide antibiotic.
- (b) Aminoglycoside.
- (c) Antifungal activity.
- (d) Acts on bacterial cell wall.
- (e) Inhibits DNA synthesis.

\mathbf{B}

- (a) Rickettsial infections.
- (b) Hide porteis disease.
- (c) Mycobacterium tuberculoris.
- (d) Urinary tract infections,
- (e) Trachoma.