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# SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, JULY 2009

MICROBIOLOGY-Paper I

Time: Two Hours

Maximum: 40 Marks

Answer Sections A and B in separate answer books.

Draw diagrams wherever necessary.

MCQs should be answered first in the response sheet provided.

#### Section A

Multiple choice questions, single response type-8 (separate sheet attached).

(8 × 1/2 = 4 marks)

II. Match the following, single response type - 8 (separate sheet attached).

(8 × ½ = 4 marks)

- III. Draw and label:
  - (a) Structure of Immunoglobulin.
  - (b) Pneumococci-Negative staining.

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

- IV. Short answer questions:
  - 1 Name four organisms causing UTI
  - 2 What is opsonisation?
  - 3 What is Quellung reaction
  - 4 What is Human leukocyte antigen?

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

- V. Write short notes on :
  - 1 Primary atypical pneumonia.
  - 2 Halophilic vibrios.
  - 3 Malignant pustule.

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

#### Section B

- VI. A 2 year old child was brough to the hospital with high grade fever and vomiting. She was stuporous and had petechial rash. On examination neck rigidity present, kernigs sign positive.
  - 1 What is the clinical diagnosis?
  - 2 Briefly mention the pathogenicity.
  - 3 Write in detail about the laboratory diagnosis of the disease.



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- 4 What are the complications?
- 5 What is the treatment? Add a note on its prophylaxis.

(1+2+3+3+1=10 marks)

#### VII. Short answer questions:

- 1 What is transduction?
- 2 Non-suppurative complications of streptococcus pyogenes infection.
- 3 What is toxic shock syndrome?
- 4 What is the principle of ELISA test?

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

## VIII. Write short notes on :

- Delayed hypersensitivity.
- 2 Immunofluorescence test.
- 3 Q fever.



6. Interleukin-2 (Il-2) is produced by :

(A) B cells.

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## MICROBIOLOGY-Paper !

#### I. MULTIPLE CHOICE QUESTIONS

		I. MULIII	LTE CHOI	CE QUESTIONS	
1	Note.—	(1) Do not write anything	on the question	on paper.	
	(2) Write your register number on the answer-sheet provided.				
		(3) Select one most appropriate response and encircle the corresponding alphabet against each question in the answer-sheet provided.			
1.	Radial immuno diffusion is used for :				
	(A)	(A) Histocompactability.			
	(B)	(B) Detection of reaginic antibodies inserum.			
	(C)	Shick test.			
	(D)	Estimation of immunoglobulin classes in serum.			
2.	Which of the following bacteria has a polysaccharide capsule?				
	(A)	Pneumococci.	(B)	Enterococci,	
	(C)	Haemophilus.	(D)	Listeria monocytogenes.	
3.	Hide porter's disease is caused by :				
	(A)	Haemophilus ducreyi.	(B)	Yersinia enterocolitia.	
	(C)	Bacillus anthracis.	(D)	Brucella melitensis.	
4.	Pathogenicity of shigella dysenteriae type I is due to :				
	(A)	Cytotoxin.	(B)	Enterotoxin.	
	(C)	Invasiveness.	(D)	Colonising factor.	
5.	The equipment for sterilizing glasswaves is:				
	(A)	Sterilizer.	(B)	Incinerator.	
	(C)	Hot air oven.	(D)	Inspissator.	

(B) Th2 cells.



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7. Wiskott-Aldrich syndrome occurs due to:

(A) T cell defects.

(B) B cell defects.

(C) Defects in phagocytosis.

(D) Both T and B cell defects.

8. Congenitally transmitted bacterial infection is:

(A) Cholera.

(B) Syphilis,

(C) Salmonellosis.

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#### MICROBIOLOGY-Paper I

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#### II. Match the following:

A 1 Widal test. Thermoprecipitation. 2 Schick test. Flocculation. 3 VDRL test. Agglutination. 4 .Ascoli's test. Neutralisation. lmmunofluorescence... B 1 Wool sorters disease. Streptococcus pyogenes. (a) Bacillus anthracis. 2 Lymes disease. Yersinia pestis. 3 Necrotising fascitis. Borrelia burgdorferi. 4 Bacillary angiomatosis.

(e) Bartonella henselae.