www.FirstRankerscom

N.T	w	w١	N.	Fir	stR	ani	ker.	COL	n
Na	mi				July	CAL II		VV.	

Reg	No.	*****	

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

- 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:
 - (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:

PDF compression, OCR, web optimization u

- 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.



2.

C 58009

- 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:

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

www.FirstRanker.com

www.FirstRanker.com

MICROBIOLOGY-Paper I

I. MULTIPLE CHOICE QUESTIONS

i	Note.—(1) Do not write anything on the	questi	on paper.			
	(2) Write your register number on	the a	nswer-sheet provided.			
	(3	(3) Select one most appropriate response and encircle the corresponding alphabet against each question in the answer-sheet provided.					
1.	1. Radial immuno diffusion is used for :						
	(A)	Histocompactability.					
	(B)	Detection of reaginic antibodies in	aserui	m.			
	(C)	Shick test,					
	(I)) I	Estimation of immunoglobulin cla	ssesi	n serum.			
2.	2. Which of the following bacteria has a polysaccharide capsule?						
	(A)]	Pneumococci.	(B)	Enterococci.			
	(C)	Haemophilus.	(D)	Listeria monocytogenes.			
3.	Hide por	ter's disease is caused by :					
	(A) l	Haemophilus ducreyi.	(B)	Yersinia enterocolitia.			
	(C) I	Bacillus anthracis.	(D)	Brucella melitensis.			
4.	4. Pathogenicity of shigella dysenteriae type I is due to:						
	(A) (Cytotoxin.	(B)	Enterotoxin.			
	(C) I	nvasiveness.	(D)	Colonising factor.			
5.	5. The equipment for sterilizing glasswaves is:						
	(A) S	Sterilizer.	(B)	Incinerator.			
	(C) I	Hot air oven.	(D)	Inspissator.			
6.	Interleuk	tin-2 (Il-2) is produced by:					
	(A) E	3 cells.	(B)	Th2 cells.			
	(C) T	h1 cells	(D)	Neutrophils			

MMM.FilstRanker.com

C-58009

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.

www.FirstRanker.com

2

C 58009

MICROBIOLOGY-Paper I

II.	Ma	tch	the following:—		
	A	A 1 Widal test.		(a)	Thermoprecipitation.
		2	Schick test.	(b)	Flocculation.
		3	VDRL test.	(c)	Agglutination.
		4 .Ascoli's test.		(d)	Neutralisation.
				(e)	lmmunofluorescence
	В	1	Wool sorters disease.	(a)	Streptococcus pyogenes.
		2	Lymes disease.	(b)	Bacillus anthracis.
		3	Necrotising fascitis.	(c)	Yersinia pestis.
		4	Bacillary angiomatosis.	(d)	Borrelia burgdorferi.

(e) Bartonella henselae.