

Answer Sheet No	_
Sig. of Invigilator	

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MICROBIOLOGY HSSC-I

SECTION A (Marks 10)

OTE:	It s	hould b	is compulsory. be completed in rerwriting is not	the fi	rst 10 minutes	and ha	anded over to	on the q the Cen	uestion paper itself. tre Superintendent.		
2. 1	Circle	Circle the correct option i.e. A / B / C / D. Each part carries one mark.									
	(i)	Who i	s considered the	father	of Microbiology?	ří					
		Α.	Robert Koch			B.	Louis Pasteu	r			
		C.	Antony van Le	eeuwenl	noek	D.	Edward Jenn	er			
	(ii)	Chine	se letter arrange	ement is	characteristic o	f which b	pacteria?				
		A.	Mycobacterium tuberculosis			B.	Bacillus anth	racis			
		C.	Corynebacter	ium diph	ntheriae	D.	Clostridium to	etani			
	(iii)	Peptio	doglycan is majo	r consti	tuent of cell wall	of which	n microorganism	?			
		Α.	Gram positive bacteria			B.	Gram negative bacteria				
		C.	Fungi			D.	Protozoa				
	(iv)	(iv) Which of the following is an efficient method of			f inciner	fincineration?					
		Α.	Destroying contaminated material			B.	Sterilizing po	int of for	ceps		
		C. Sterilizing scalpel blades and needles				D.	Sterilizing all-glass Syringes				
	(V)	By wh	nich of the follow	ing met	nods is tetanus t	ransmitt	ied?				
		A.	Inoculation	B.	Inhalation	C.	Ingestion	D.	Contact with patient		
	(vi) Which of the following infections is acquired from animals?										
		A.	Plague	B.	Diphtheria	C.	Meningitis	D.	Poliomyelitis		
	(vii) Which of the following bacteria is NOT capsulated?										
		A.	Haemophilus influenzae			B.	Streptococcus pneumoniae				
		C. Neisseria meningitidis			D.	Corynebacterium diphtheriae					
	(viii)	What is the usual dose of purified protein derivative in Mantoux test?									
		A	5 IU	B.	50 IU	C.	100 IU	D.	150 IU		
	(ix)	What	is the name of o	listributi	on of flagella all	around t	the body of bacte	eria?			
		A.	Monotrichous	B.	Lophotrichou	s C.	Amphitrichou	is D.	Peritrichous		
	(x)	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							owth of unwanted		
		bacteria and permits the growth of wanted bacteria?									
		Α.	Selective med	dium		B.	Enriched me	dium			
		C	Enrichment m	nedium		D.	Differential n	nedium			
	Eo. F	vamina	r's use only:								
	FULL	.xaiiiiile	i a dae only.			Tota	al Marks:		10		
					1010						

Total Marks:	10		
Marks Obtained:			



MICROBIOLOGY HSSC--I

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Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE:- Answer any thirteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 26)

- Q. 2 Attempt any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2 = 26)
 - (i) Define Bacterial capsule.
 - (ii) Name the various methods for the classification of bacteria.
 - (iii) Write down Ziehl Neelsen staining procedure.
 - Define Magnification of microscope. (IV)
 - (V) Write a short note on Coagulase test.
 - Write down Koch's postulates. (vi)
 - (VII) Define general characteristics of viruses.
 - (viii) Which diseases are caused by Streptococcus pyogenes?
 - (ix) What is Schick test?
 - (X) Write down the morphology and staining behaviour of Clostridium tetani.
 - (xi) Define the various modes of action of antimicrobial agents on bacteria.
 - (xii) Define Pasteurization.
 - (xiii) What is Selective media?
 - (xiv) Define Quellung reaction.
 - (XV) Write down the basis of classification of β haemolytic streptococci.
 - (xvi) Differentiate between Disinfection and Antisepsis.
 - (xvii) Define various ways for the transmission of staphylococcus infection.

SECTION - C (Marks 14)

Attempt any TWO questions. All questions carry equal marks. Note:

 $(2 \times 7 = 14)$

- Q. 3 What is Sterilization? Write down the moist heat method for sterilization.
- Q. 4 How do bacteria acquire anti microbial resistance?
- Explain the Pathogenesis of Dengue virus. Q. 5

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