TO AMAS SE	Roll No.  Sig. of Candidate.	Answer Sheet NoSig. of Invigilator

Answer Sheet No		
Sig. of Invigilator		

## MICRORIOLOGY HSSC-I

<ul> <li>allowed: 10 Minutes</li> <li>Section—A is compulsory. All parts of this section are to be answered on the question paper itse it should be completed in the first 10 minutes and handed over to the Centre Superintender Deleting/overwriting is not allowed. Do not use lead pencil.</li> </ul>						
Ci	Circle the correct option i.e. A / B / C / D. Each part carries one mark.					
(i)	)	The te	erm microbiology as the study of livin	g organisms	s of microscopic size was coined by:	
		A.	Robert Koch	В.	Antony Van Leeuwenhoek	
		C.	Louis Pasteur	D.	John Hunter	
(ii)	i)	Which	of the following organisms utilize on	ly glucose t	out not maltose?	
		A.	Neisseria meningitidis	В.	Neisseria sicca	
		C.	Neisseria gonorrhoeae	D.	Neisseria flavescens	
(ii	ii)	DNas	e test is used for identification of:			
		A.	Mycobacterium bovis	В.	Staphylococcus aureus	
		C.	Streptococcus pneumoniae	D.	Brucella canis	
(iv	v)	Which	n of the following is caused by Clostri	dium perfrin	gens?	
		A.	Mastitis	В.	Conjunctivitis	
		C.	Gas gangrene	D.	Cutanious diphtheria	
(v	<b>/</b> )	lodine	e is used as mordant in:			
		Α.	Z N Staining	8.	Gram's Staining	
		C.	Hiss Staining	D.	Albert Staining	
(v	/i)	All ba	cteria that inhabit the human body ar	e:		
		A.	Autotrophs	8.	Heterotrophs	
		C.	Phototrophs	D.	Chemolithotrophs	
(vii)	/ii)	Stuar	t's transport medium is used for trans	port of spec	cimen containing:	
		A.	Salmonella	₿.	Vibrio Cholerae	
		C.	Neisseria gonorrhoeae	D.	Shigella	
(v	ziii)	Penic	illins and Cephalosporins interfere w	ith:		
·	·	A.	Cell wall synthesis	В.	Cell membrane function	
		C.	DNA function	D.	Protein synthesis	
(ix)	x)	Shick	test is used to check the susceptibili	ty of an indi	vidual to which organism?	
		A.	Vibrio cholerae	В.	Corynebacterium diphtheriae	
		C.	Streptococcus pneumoniae	D.	Mycobacterium tuberculosis	
(x	x)	Which	n of the following types of leprosy is t	he most infe	ectious?	
. •		A.	Lepromatous leprosy	₿.	Tuberculoid leprosy	
		C.	Borderline leprosy	D.	Indeterminate leprosy	
F	or Ex	camine	r's use only:	<del></del>		
				Tota	Totai Marks:	
				i i i i i i i i i i i i i i i i i i i	ks Obtained:	



## MICROBIOLOGY HSSC-I

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.

	you	r answers neatly and legibly.						
	SECTION - B (Marks 26)							
Q. 2	Answ	Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2 = 26)						
	(i)	Define cultural characteristics of Corynebacterium diphtheriae.						
	(ii)	Define tuberculin test.						
	(iii)	Write a note on fimbriae or pili.						
	(i <b>v</b> )	Write a note on Enrichment media.						
	(v)	Enumerate the chemicals used for disinfection and antisepsis.						
	(vi)	Define the grouping of bacteria on the basis of oxygen requirement.						
	(vii)	What do the following abbreviations stand for:						
		a) STD b) PCR c) AFB d) XLD						
	(viii)	Write a note on Coagulase test.						
	(ix)	Name four bacteria causing urinary tract infection.						
	(x)	Write a note on lag phase of bacteria.						
	(Xi)	Define sterilization.						
	(xii)	Write a note on transmission routes for animal viruses.						
	(xiii)	Define resolution of microscope. Which lens gives better resolution in Binocular microscope?						
	(xiv)	Enumerate the ways by which bacteria become resistant to antimicrobial agents.						
	(xv)	Name the causative agent and types of leprosy.						
	(xvi)	Write down the morphology and cultural characteristics of E-Coli.						

## SECTION - C (Marks 14)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 7 = 14)

(xvii) Write a note on pathogenicity of Neisseria gonorrhoeae.

- Q. 3 Discuss replication of viruses.
- Q. 4 Write a comprehensive note on transmission, pathogenicity and laboratory diagnosis of Mycobacterium tuberculosis.
- Q. 5 How do bacteria acquire antimicrobial resistance? Describe antimicrobial sensitivity testing by stokes disc diffusion method.