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Answer Sheet No	
Slg. of Invigilator	

re:	allowed: 10 Minutes Section—A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 10 minutes and handed over to the Centre Superintendent Deleting/overwriting is not allowed. Do not use lead pencil.						
	Circle the correct option i.e. A / B / C / D. Each part carries one mark.						
	crobiologist?						
		Α.	Paul Ehrlich	В.	Edward Jenner		
		C.	Antony Van Leeuwenhoek	D.	Joseph Lister		
	(ii)	Which of the following is a lactose fermenting bacteria?					
		A. C.	Salmonella typhi Escherichia coli	B. D.	Shigella flexneri Proteus vulgaris		
	(iii)	Whic	h of the clinical specimen should no	t be centrifug	ed?		
		A.	Non purulent	В.	Purulent		
		C.	Containing mucus	D.	Containing blood		
	(iv)	Which of the following is true for Corynebacterium diphtheriae?					
		A.	Bacillary dysentery				
		B.	Food poisoning				
		C.	Formation of pseudo membrane	in nasophary	nx		
		D.	Pneumonia				
	(v)	Which of the following kills microorganisms?					
		A.	Bacteriostatic	В.	Bactericidal		
		C.	Preservative	D.	Antiseptic		
	(vi)	The period between inoculation of bacteria in a culture medium and beginning of multiplication					
		is kno	own as:				
		A.	Lag phase	B.	Log phase		
		C.	Stationary phase	D.	Decline phase		
	(vii)	Biological control used in an autoclave is the spores of:					
		A. C.	Bacillus cereus Clostridium perfringens	B. D.	Bacillus stearothermophilus Clostridium histolyticum		
	(viii)	Whic	h of the following penicillins is resist	tant to β lact	amases?		
		A. C.	Cloxacillin Penicillin G	В. D.	Carbenicillin Ampicillin		
	(ix)	The mode of transmission of Vibrio cholerae is through:					
		Α.	Inhalation	В.	Ingestion		
		C.	Inoculation	D.	Through personal contact		
	(x)	Usual dosage of purified protein derivative in Mantoux test is:					
		A.	5 IU	В.	50 IU		
		C.	100 IU	D.	150 IU		

Marks 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.

SECTION - B (Marks 26)

- Q. 2 Answer any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2 = 26)
 - (i) Define avidity of antitoxin.
 - (ii) Define Heaf test.
 - (iii) Write a note on bacterial capsule.
 - (iv) Write a note on enriched media.
 - (v) Enumerate the types of radiations used for sterilization.
 - (vi) Define the grouping of bacteria on the basis of temperature.
 - (vii) What do the following abbreviations stand for?

BCG

ELISA

TCBS

NADP

- (viii) Write a note on catalase test.
- (ix) Name four bacteria causing meningitis.
- (x) Write a note on log phase of bacteria.
- (xi) Define disinfection and antisepsis.
- (xii) Write a note on transmission routes of human viruses.
- (xiii) Differentiate between useful and empty magnification of microscope.
- (xiv) Enumerate the ways of controlling antimicrobial resistance.
- (xv) Name the causative agent and stages of syphilis.
- (xvi) Write down the morphology and cultural characteristics of Neisseria meningitidis.
- (xvii) Write a note on pathogenicity of Clostridium perfringens.

SECTION - C (Marks 14)

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

 $(2 \times 7 = 14)$

- Q. 3 Discuss pathogenesis and laboratory diagnosis of polioviruses.
- Q. 4 Write a comprehensive note on transmission, pathogenicity and laboratory diagnosis of Mycobacterium leprae.
- Q. 5 How are culture media sterilized? Describe the various methods of sterilization by dry heat.