Paper / Subject Code: 69105 / Microbiology

[Time: Three Hours]

Q.P. Code: 36177

[Marks:80]

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				Pl	ease check whether you have got the right question paper.		
		N	.B:		All questions are compulsory.		
				2.	Draw a neat labelled diagram wherever necessary.		
Q1		Answer	the fol	low	ing:		
~ -	a)			ine angular aperture			
	,				cteria on the basis of temperature requirement	01 01	
					ocomial infections	01	
					xamples of bacteria having endospore	01	
	b)	i)	Draw a	nea	at labelled diagram of flagella	02	
					te between Prokaryotic and Eukaryotic micro organisms	02	
					th suitable example selective media	02	
					nfections caused by Salmonella spp., and mention the diagnostic tests	02	
					ne economic significance of algae	02	
					at labelled diagram of HIV	02	
					give two examples of disinfectant	02	
		viii)	Explair	the	e steps involves in microbial limit tests of E. coil	02	
Q.2	a) Describe in detail fluorescence microscopy					04	
					terilization with respect to method, mechanism of action and applications	04	
	c)	Describe	e tydalli	ızatı	ion method of sterilization and write its application	04	
Q.3		a) Write a short note on growth phases of bacteria					
		b) Enlist methods of isolation of pure culture and explain any one method					
	c) Describe any one i) Fungal infections					04	
					infections	04	
		,	895				
Q.4	a) Explain different methods of cultivation of viruses					04 04	
	b) Describe in detail morphological characteristics of bacteria						
	c)	Explain	biologi	cal O	and economic significance of algae R	04	
	c)	c) Explain asexual reproduction in fungi					
Q.5		a) Explain mode of action, applications and limitations of alcohol as disinfectant					
	b) Describe Phenol coefficient test						
	(c)	c) Write a note on indicators used for validation of sterilization					

c) Explain applications, advantages and disadvantages of moist heat sterilization

Q.6 a) Enlist methods of cultivation of anaerobes and draw a diagram of anaerobic Jar

b) Explain the steps involved in sterility testing of ophthalmic preparations

c) What are different sources of contamination in an aseptic area?

OR
c) Draw the layout of aseptic area