## Sem-IV (CBSGS)-Micdobiology-

QP Code: 21737

[3 Hours]

(1) All questions are compulsory.

(2) Draw a neat labelled diagram wherever necessary.

[Total Marks: 70

1.	Answe	r the following:—	
	(a)	Define sanitization with example.	1
	(b)	Explain decimal reduction time with its application.	1
	(c)	Write the biological indicator used for autoclave.	1
	(d)	Give the importance of positive control used in sterility testing	1
	(e)	Name the causative agent for typhoid fever.	1
	(f)	Write the diagnostic test for leprosy.	1
	(g)	Define enriched media with suitable examples.	1
	(h)	Name two Chlamydial infections with the causative agents.	2
	(i)	Write Pasteur's contribution in the field of Microbiology.	2
	(j)	Name any two motile bacilli.	2
	(k)	Define limit of resolution and give its significance.	2
	(11)	Dolling limit of resolution and give in algument	
2.	(a)	Write a note on transmission electron microscopy and its applications	4
4.	(b)	Discuss filtration with respect to method, mode of action and applications.	4
	(c)	Write a note on preservation of bacteria.	3
	(0)	write a note on preservation of outside.	J
3.	(a)	Define disinfectant and write ideal properties of a disinfectant.	4
٥.	(b)	Explain morphological characteristics of a virus	4
	(c)	Distinguish between (any one):—	3
	(0)	(i) Bacteria and Rickettsia.	
		(ii) Compound microscope and electron microscope.	
		(ii) Compound increscope and election inferescope.	
4.	(a)	Write a note on asexual reproduction in fungi.	
٦.	(b)	Enlist methods of measurement of bacteria. Describe vaiable count	4
5	(0)	method.	4
		OR	7
	(h)		
		Describe growth phases of bacteria.  Describe rickettsial infections.	
	(c)	Describe mekensiai infections.	3
			9

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N.B. :

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5.	(a)	Explain the mechanism and applications of moist heat sterilization.	4
	(b)	Write a note on cultivation of anaerobes.	4
	(c)	Give economic importance of algae.	3
6.	(a)	Describe with diagram lytic cycle of bacteriophage.	4
		OR	
		Write a note on Oncogenic viruses.	ě,
	(b)	Explain identification of bacteria on the basis of morphological and cultural	4
		characteristics.	
	(c)	Explain differential staining with suitable example.	3

LO-Con.: 409-15.