

QP Code: 21737

[3 Hours]

[Total Marks: 70

N.B.: (1) All questions are compulsory.

1. Answer the following:-

(2) Draw a neat labelled diagram wherever necessary.

	(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	
	(1)	Write the diagnostic test for leprosy.	- 1	
	(g)	Define enriched media with suitable examples.	1	
	(h)		2	
	(i)	Write Pasteur's contribution in the field of Microbiology.	2	
	0)	Name any two motile bacilli.	2	
	(k)	Define limit of resolution and give its atgnificance.	2	
2.	(a)	Write a note on transmission electron microscopy and its applications	. 4	
	(b)	Discuss filtration with respect to method, mode of action and applications.	. 4	
	(c)	Write a note on preservation of bacteria.	3	
3.	(a)	Define disinfectant and write ideal properties of a disinfectant.	4	
	(b)	Explain morphological characteristics of a virus		
	(c)	Distinguish between (any one):-	3	
		(f) Bacteria and Rickettsia.		
		(ii) Compound microscope and electron microscope.		
4.	(a)	Write a note on asexual reproduction in fungi.		
	(b)	Enlist me tods of measurement of bacteria. Describe vaiable count	4	
٠.		method.	4	
		OR		
	(b)	Describe growth phases of bacteria.		
	(c)	Describe rickettsial infections.		
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5.	(a)	Explain the mechanism and applications of moist he	at sterilization.	4
	(b)	Write a note on cultivation of anaerobes.		
	(c)	Give economic importance of algae.	4	.3
	7.0			4
6.	(a)	Describe with diagram lytic cycle of bacteriophage.		
		OR	Co se	
	4	Write a note on Oncogenic viruses.		- 4
	(b)	Explain identification of bacteria on the basis of mor	phological and cultural	
	(c)	Explain differential staining with suitable example.	24 "	3
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