## B.Sc. (CBCS Pattern) Sem-II 014B - Microbiology (Paper-II) : Applied Microbiology

	Pages : 2 ne : Three 2	Hour	S * 0 5 3 3 *	GUG/W/22/11589 Max. Marks : 50	
	Notes :	1. 2.	All questions are compulsory All questions carry equal marks.		
1.	D	escrit	be lemon sampler and Anderson sampler for microbial enumeration	of air.	10
			OR		
	a)	W	rite a note on laminar air flow system.	2	21/2
	b)	D	escribe radiation as a room sterilization technique.	2	21/2
	c)	W	rite various air borne diseases with their causative agents.	2	21/2
	d)	W	rite a note on sources of microorganisms in air.	2	21/2
2.	D	escrit	be in detail construction and mechanism of working of rapid sand fi	lter.	10
			OR		
	a)	W	rite a note on Indole test.	2	21/2
	b)	W	hat is MPN? How it is calculated.	2	21/2
	c)	W	rite a note on Ammonia – Chlorine treatment.	2	21/2
	d)	W	hat are coliforms? Differentiate between faecal and non-faecal coli	forms.	21/2
3.	D	escrił	be Trickling filter and activated sludge process for secondary treatment	nent of sewage.	10
			OR		
	a)	W	rite a note on BOD, COD and Th. OD.	2	21/2
	b)	W	rite a note on Imhoff tank.		21/2
	c)	W	rite a note on Composition of sewage.		21/2
	d)	W	rite a note on RBC.		21/2
4.	D	escrit	be in detail process of production of collage cheese in detail?		10
			OR		
	a)	W	rite a note on yoghurt.		2 <sup>1</sup> /2

b)	Define Pasteurization? Describe virions methods of pasteurization.	21/2
c)	Describe bacteriological examination of milk by SPC.	21/2
d)	Write a note on phosphatase test.	21/2
Atte	empt <b>any ten</b>	
a)	What is aerosol?	01
b)	What is pore size of HEPA filter used in laminar air flow system.	01
c)	Write composition of air?	01
d)	Write Thomas formula for calculation of MPN / 100ml.	01
e)	What is Eijkman test?	01
f)	Enlist any two water borne diseases with causative agents.	01
g)	What are various types of sewage?	01
h)	What is preliminary treatment of sewage?	01
i)	What is Biofilm in trickling filler?	01
j)	Write composition of milk.	01
k)	What is DMC?	01
1)	Any two milk borne diseases with causative organism.	01

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