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No. of pages: 02

Total Marks: 70

(116) SARDAR PATEL UNIVERSITY

M.Sc. Integrated Biotechnology - Semester III

PS03CIGB04: MICROBIOLOGY - II Wednesday, 5th December, 2012

Wednesday, 5" December, 201 Time: 2:30 p.m. to 5:30 p.m.

Note:		igures to the right indicate marks. Oraw diagrams wherever necessary.	
Q-1	(1-) ~	Multiple Choice Questions.	(08)
	(1)	The full name of HEPA filter is filter.	
		(a) High Efficiency Particle Air (b) High Efficiency Particular Air	
		(c)High Efficiency Particulate Air (d)Higher Efficiency Particulate Air	
	(2)	Excessive accumulation of fluids in tissue is known as	
		(a) Edema (b) Papules	
		(c) Odema (d) Nodules	
	(3)	is secreted in tears.	
		(a) Lipozyme (b) Lysozyme	
		(c) Antibiotic (d) All of three	
	(4)	Winogradsky column is used in cycle.	
		(a) Phosphorus (b) Carbon	
		(c) Nitrogen (d) Sulphur	
	(5)	Kefir is a product.	
		(a) Milk (b) Wheat	
		(c) Buttermilk (d) Milk and wheat	
	(6)	In Whittaker's five kingdom concept prokaryotes are included in	
		kingdom.	
		(a) Plantae (b) Protista	
		(c) Monera (d) Animalia	
	(7)	scheme is used to arrange organisms in to groups.	
		(a) TAXA (b) Strain	
		(c) Genus (d) None of three	
	(8)	The sludge, which has already undergone a digestion, is called sludge.	
		(a) Ripe (b) Advanced	
		(c) Floccules (d) Activated	
Q-2		Answer any seven of the following questions in brief.	(14)
	(1)	Define: Bacteremia, Pyemia	
	(2)	Explain Single Cell protein.	
	(3)	Discuss the factors influencing air flora.	
	(4)	_	
		Enlist normal flora of eyes.	
	(5)	What is Rhizosphere? Explain.	

	(6)	Name and explain the test done for qualitative analysis of milk.	
	(7)	What do you mean by numerical taxonomy?	
	(8)	What are coliforms? List microorganisms other than coliforms present in fresh water.	
	(9)	Enlist criteria used for classification of bacteria.	
Q-3	(a)	Write a note on Whittaker's five kingdom concept in detail.	(06)
	(b)	Discuss briefly about Molecular chronometer and Numerical classification.	(06)
		OR	
	(b)	Enlist and explain any two molecular methods used for microbial classification.	(06)
Q-4	(a)	Enlist phagocytic cells and add a note on mechanism of phagocytosis.	(06)
	(b)	Give an account on normal flora of skin and mouth.	(06)
		OR	
	(b)	Describe in detail about factors affecting virulence.	(06)
Q-5	(a)	Write a complete note on nitrogen cycle.	(06)
	(b)	Depict milk microflora and write a note on Pasteurization.	(06)
		OR	
	(b)	Enlist techniques used for preservation of food and explain any two in detail.	(06)
Q-6	(a)	Write an inclusive note on bacteriological analysis of freshwater.	(06)
	(b)	Enlist methods for enumeration of air microflora and discuss any two in detail.	(06)
		OR	
	(b)	Describe in detail about Standard Multiple Tube Fermentation Technique.	(06)