Q.P. Code: 12796

			(2½ Hours)	Total Marks: 75
		N.B. :	(1) Attempt all questions.	
		М.Б	(2) All questions carry equal marks.	
			(3) Draw neat labeled diagrams wherever necessary.	
			The state of the s	
			가 이번 가게 가는 것이 되었다. 이 전에 되는 것이 되었다. 그는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이다. 그는 것이 말을 보는 것이 있는 것이 있는 것이 없는 것이 되었다. 그 것이 없는 것이다. 그런 것이 없는 것이 사	
1	a)	Do as	directed (Any three)	3
	·	i.	Name two sweeteners added to yogurt.	
		ii.	State the role of salt in cheese production.	
		iii.	Define Homofermentation	
		iv.	Give two examples of normal flora of milk.	
		v.	Name two genera of psychotrophic organisms found in	milk
		vi.	Name two coloring agents used in butter.	44
				12
1	b)		ver the following (Any two)	. , ,
		i.	Schematically represent Swiss chaese production.	
		ii.	Discuss:"Characteristics and role of starter cultures used	in the dairy
		22	industry" Figure 1 the factors offenting beganning and applify of mi	11 _e
		iii.	Explain the factors affecting bacteriogical quality of mi	
		iv.	Elaborate on any two tests based on oxidation reduction milk.	I quality of
			IIIIK.	* *
2	2) (Five or	ne example of: (Any three)	3
۷	a) C	i.	Culture for ethanol fermentation	
		ii.	Fungal culture used in citric acid fermentation	
		iii.	Organism used for beta lactam antibiotic production	. Plant Brid
		iv.	Semi-synthetic penicillin	• .
		v.	Raw material used in ethyl alcohol fermentation	
		vi.	Ray material used in wine	
			그렇게 가게 살아 있는 그런 그는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다.	
2	b) A	ttemp	t the following: (Any two)	12
		i.	Explain the process of Penicillin production.	
		ii.	What is vinegar? With a labeled diagram explain the	e design of
			trickling filter.	
		iii.	Describe production of wine in detail.	
		iv.	Give an account of production of citric acid by submer	ged culture
			process.	
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	۵)	Give	the role of: (Any three)	3
3	a)	i.	Injector	.3
		įi.	Sample port	
		iii.	Dissolved Oxygen electrode	
		iv.	Antifoam agent	
		٧.	pH probe	
	j	vi.	Exit gas analyser	i
3	L)	Attem	pt the following (Any two)	12
	b)	i.	Give the working of the airlift fermentor with an inner loop	
		ii.	Discuss the working of bioreactors used for animal cell culture	
		iii.	Elaborate on the measurement and control of pressure in fermentation	
			process	
		iv.	Give the working of Bubble column fermentor	
		nlo:	in the terms (Any three)	3
4	a)	Explai	Liquid shear	•
		1.	Exclusion chromatography	
		ii. 	Whole broth processing	
		iii.	Reverse osmosis	
		iv.	왕하게 보고하는 것 마다를 하면 보는 사람들이 되었다.	
		V.	Crystallization	
		vi.	Precipitation	
4	b)	Elahor	rate on the following: (Any two)	12
	U)	i.	Rectors involved in Scale up in a termentation process	
		ii.	Filtration in downstream processing with reference to pressure leaf	
		•••	filters	
		iii.	methods of cell disruption in detail	
		iv.	Distillation in a downstream processing with a neat labelled diagram	
	Wri	te shor	t notes on: (Any three)	15
		i.	Pasteurization	
		ii.	Manufacture of butter and its spoilage	
			Foam separation	
			Packed column reactor	
b			Streptomycin production	
			Spoilage of beer	
			B. 유명 - 17개 : 그림 사람은 1일, 1일	

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