Som. II OCH 2019

Total Marks: 100

3 Hours

		200
	Attempt all questions.	
1.	all duestions carry equal man	
2.	Draw neat labeled diagrams with	
3.	Use of log tables and non-programmable calculator is allowed.	
4.	Programmable calculators	
	Give one example of: (Any six)	06
Q.1 a.	Starter culture used in butter milk production.	
1.	Sweeteners used in Yogurt preparation.	
2.	Colour used in butter.	
3.	Normal microflora present in milk.	
4.	Rancidity	
5.	Semihard cheese.	
6.	Milk enzyme.	
7.		, v
8.	Organism used in ripening of Swiss cheese. Flavour defect in butter.	
9.	Flavour detect in butter,	
		14
Q.1 b.	Answer the following questions: (Any Two)	
1.	Discuss butter production.	
2.	How would you preserve milk?	
3.	Give a brief account on different types of Yogurt.	
		06
Q.2 a.	Give any one example of the following (any six)	
1.	Ion exchanger	
2.	Surfactants in downstream processing	
3.	Continuous filtration method	
4.	Centrifuges used in DSP.	
5.	Filter aid	
6.	Mechanical method of cell disruption.	
7.	A CONTRACTION OF THE COMPANY	
8.	Salts used in precipitation of product purification. Solvent recovery method for product purification.	
9.	Solvents used in liquid-liquid extraction method.	45.045
F 2	선수 가는 사람들이 가게 되는 것 하다면서 가게 되었다.	14
7 L	Discuss the following (Any two) Role of Adsorption and Gel permeation chromatography in recovery	
1.4.D.	Trata of Adsorblious and	
4	and purification of product.	
7-5	and purification of products and purification of products Chemical methods of cell disruption. Chemical methods in downstream processing.	
2.	Chemical methods of cell disruption. Chemical methods in downstream processing. Batch filtration methods in downstream processing.	
3.	- Ratch fillrangu	357741.4

Paper / Subject Code: 86402 / Industrial Microbiology

Q.3		06
1	State True or False: fermentation must read	
	State True or False: The culture used to inoculate fermentation must retain its product -	
	forming capabilities.	
2	State True or False: Penicillin is a	
_	State True or False: The new series of semisynthetic Penicillin is due to acylated 6-	
•	Geneting the reason of phase for down	
3	1 processes.	1 - 2 T
4		12.4.5
	described by Fleming. Name the culture used in Production of Streptomycin. Name the culture used in Production of Streptomycin.	
5	Name the culture used in Floring in production of ethyl alcohol. Give one Saccharide raw material used in production of ethyl alcohol.	
6	Give one Saccharide raw matter. Give an example of a mushroom which can be used for human	
7.	Give an example of a musing	
	consumption.	3 Ca.
0	Choose the correct alternative and fill in the blank:	
8.		
	hydrocortisone (Curvularia lunata, Saccharomyces cerevisiae,	~-
	Choose the correct alternative and fill in the blank:	,
9.	Choose the correct alternative and in conversion of D-glucose to There are	
	There are	
	streptomycin (28, 35, 10)	
	vactions (Any Two)	14
Q.3 b	Discuss the following questions: (Any Two)	•
1.	With reference to production of proteases a. Strains employed in proteases and Two types of proteases	
	a. Strains employed in Proteases	
	b. Production method for two types of proteases.	
2.	Criteria for the transfer of inoculum.	
. 3.3 ³	Scale Down methods	
	6.66	06
0 4 g	Do as instructed: (Any Six)	VO
₹ 	Till in the blank of the plank	
	molves taking samples at random and	
	testing for presence of microorganisms	
	Testing for processing to the control of the contro	1
2. 3. 4.	Define QC	
3 .	What is In-process countols.	
4	Fill in the blank:	
220	should be used at junctions between walls and floors	
	or ceilings of a significant and a significant a	
×5.~~	Water used for parenteral products must be	
6.		
(A)	Fill in the blank sterilization involves the product being sealed	
3	in its container and then sterilized.	
100	IN Its Courseller ours and a service of the service	
Lan Ann		
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Fill in the blank: Recommended limit of viable airborne microorganisms in 7. Clothing worn in the clean/aseptic area must be of cfu/m3 8. What is the orange guide? 9. Give an account of the following: (Any Two) Q.4 b. General requirements of premises, Internal surfaces, fittings. floors 1. and Air supply with respect to a sterile products manufacturing unit Hazard analysis of critical control points Requirements for operating in aseptic areas with respect to Entry to 3. aseptic areas, Equipment and operation and Isolator and blow/fill/seaf Write Short notes on the following (Any four) Q.5 20 Cheese defects Factors determining the bacteriological quality of milk Precipitation methods in product Recovery. Significance of drying in downstream processing. d. Reactions and By-products of ethyl alcohol production. e. Basic operating standards for the manufacture of sterile products f. Page 3 of 3

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