Q.P. Code :10734

[Marks:60]

Please check whether you have got the right question paper.		
	N.B: 1. All questions are compulsory .	
	2. All question carry equal marks.	
	3. Draw neat labelled diagram wherever necessary.	
	3. Diaw near labelled diagram wherever necessary.	
Q.1	Answer any two of the following:	
a.	2 0 2 V 2 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V 3 V	300 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
b.		25 20 20 5 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
С.	How would you control and measure pressure and foam in a fermentor.	N. S. W. O. S.
d.	Discuss filter sterilization of media and air for a fermentation process.	
Q.2 a.	Answer any one of the following:	30
i)	Describe the different physicomechanical methods of cell disruption.	3 20
ii)	Explain any two aerobic processes for effluent treatment.	559
b.	Explain any one of the following	04
i)	Use of filter aids	
ii)	Oxidation ponds	
Q.3	Explain any two of the following:	12
a.	Sweetners derived from starch hydrolysis.	
b.		
С.	Lipase catalyzed inter esterification to modify edible oils and fats:	
d.	Types of amylases and their applications in food industry.	
Q.4	Discuss any two of the following:	12
a.	Fermentation steps in wine production.	
b.	Role of microorganisms in flavor formation in food stuffs.	
c.	Bacteriocin types and application.	
d.	Utilization of dairy waste for production of useful products.	
Q.5	Write short notes on any three of the following:	12
	Strain improvement.	12
100 M	Media optimization.	
2 2 C	Septic tanks.	
20 d)	Glucose oxide its applications in food.	
19 - E	2,	
> \\ f.	Microbial production of citric acid.	
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[Time: 2½ Hours]