

## Firstranker's choice B. Tech. Eighth Semester (FoodwelpiestRankericomPaint and www.FirstRanker.Som 11086: Food Technology-VI: 8 FT 01

P. Pages: 2 Time: Three Hours



AW - 3510 Max. Marks: 80

Notes: 1. Answer all question from Section A and all question from Section B. 2. Diagrams and chemical equations should be given wherever necessary.

3. Illustrate your answer necessary with the help of neat sketches.

## SECTION - A

1. Describe major groups of commercial important fermentation processes. a) 8 Draw a schematic diagram of general Fermentation process. b) OR 2. Give the composition of general fermentation medium. 8 a) b) Write a note on antifoam. 6 3. Describe in detail manufacture of fungal single cell protein by continuous cultivation. 8 a) b) What is single cell protein? Enlist microorganisms from each category. 5 OR 9 Explain in detail manufacture of active dry and wet yeast. 4. a) b) Give the applications of yeasts in food industry. 10 5. Describe growth Kinetics of batch culture. a) Give the applications of fed batch culture. 3 b) OR 7 Describe the dynamic method of gassing out of kLa measurement. 6. a) Discuss the fermentation fluid theology. 6 b) SECTION - B 7 Describe the various designs of agitator in a fermenter design. 7. a) 7 Discuss filter sterilization of incoming is exhaust air from fermenter. b)

OR

8.		stranker's choice Describe in detail manufactuwwww.FirstRanker.com	10
	b)	Give the industrial applications of lactic acid in Food industry.	3
9.	a)	Draw a schematic diagram of solid state fermenter with various controls.	7
	(b)	Give the advantages & disadvantages of solid state fermentation.	6
OR			
10.	a)	Describe in detail manufacture of red wine.	8
	b)	Discuss malolactic fermentation.	5
11.	a)	Describe the method of enzyme immobilization by polymer entrapment.	8
	b)	Give the applications of enzyme immobilization in food industry.	5
12.	a)	What is B.O.D. and C.O.D? Describe biological treatment by trickling filter.	8
	b)	Write a note on Carotenoid fermentation.	5

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