

KERALA AGRICULTURAL UNIVERSITY B.Tech. (Food Engg. & Tech.)- 2019 Admission

III Semester -Final Examination-February-2021

Fdqu.2103

Biochemical Engineering (1+1)

Marks:50 Time:2 hrs

		Till in the blooks:	-10)
I		RIII IN THE DISHES:	-10)
	1.	The name of mechanical method used to sterilize fermentation media is	hour
	2.	A fed-batch reactor initially contains 2 litre of medium. If it was fed at 1 litre per	noui,
		then after 10 hours, the volume of the reactor will be	tinual
		A culture system with constant environmental conditions maintained through control provision of nutrient and removal of wastes is called culture system.	
	4.	In chemostat is controlled by increasing and decreasing flow of co	ilture
		medium	
	5.	A type of bacterial growth where the cells never reach its stationary phase is continuous culture.	carred
		State true or False	
	6.	Axial flow impellers are suited for use in shear sensitive processes.	
	7.	Air can be sterilized by chemical agents.	
	8.	Batch culture method is steady state process.	
	9.	Baffles are not disrupt vortex and provide better mixing.	1100
	10.	Reynolds number is calculated from the diameter and peripheral speed of the important and peripheral speed o	ener.
II		Write Short notes on ANY FIVE of the following (5x2:	=10)
	1.	Stability analysis of reactors	
	2.	Define liquid - liquid extraction	
	3.		
	4.	Describe turbidostat	
	5.		
	6.	Mass transfer coefficient	
	7.	Application of fermenter in food industry	
ш		Answer ANY FIVE of the following (5x4	=20)
	1.	Describe ion exchange chromatography method	
	2.		
	3.		
	4.		ion
	5.	· 사람들의 경우 사람들의 경우를 가는 사람들이 되었다. 그 사람들은 사람들이 되었다면 하는 것이 되었다면 하는데 보다 되었다면 하는데 보다 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 사람들이 되었다면 하는데	
	6.		
	7.		
IV		Wille all Coody off fair to the total way	0=10)
	1.	Explain detail about continuous stirred tank reactor design and its application.	
	2.		on.