

## KERALA AGRICULTURAL UNIVERSITY B.Tech.(Food Technology) 2020 Admission IV Semester Final Examination - August 2022

Pafe.2221

## Food Biotechnology (2+1)

Marks: 50 Time: 2 hours

I		Fill in the blanks	
	1	enzymes in bacteria are responsible for restricting the	(10x1=10)
	2	chizylic is used to foll fogether two different types of DNA	1 1
	3	. Recombinant plasmus are added to a bacterial culture that has been pretroated	with
		10118.	· WILLI
	4.	Transfer is a	
	5.	The process of introducing DNA into cells is called	
	,	State 1 rue or False	
	6.	Beneface very less amounts of DNA.	
	7.	In lactose industry lactase immobilized enzyme is used	
	8.	Cocoa butter substitutes is produced by using immobilized Lipage	
	1.	There are only 2 generation of biosensors	
	10.	Immobilized enzymes are more preferred over free enzymes in producing biose	ensors.
II		Write short notes on ANY FIVE of the following	
	1.	Differentiate between Prokaryotes and Eukaryotes.	(5x2=10)
	2.	What are plasmids?	
	3.	Define gene cloning.	
	4.	Describe the properties of biosensors.	
	5.	What is immobilization of enzyme?	
	6.	List out the examples of GMO crops.	
	7.	Differentiate between entrapment and encapsulation.	
Ш		Answer ANY FIVE of the following	
	1.	Explain the steps involved in circular DNA replication.	(5x4=20)
	2.	Explain about the role of polymerase in the DNA replication.	
	3.	Discuss about the tools used in recombinant DNA Technology.	
	4.	Write about Amperometric and Potentiometric biosensors.	
	5.	Discuss the methods of entrapment.	
	6.	Write about the advantages of immobilization of cells.	
	7.	Discuss about the application of Biotechnology in food processing.	
		생물님이 어린다면 가장 보다는 이 아이는 그리지 않는데 사람들이 되었다. 그리고 있는데 이 없는데 이 없는데 하는데 되었다.	
IV		Write an essay on ANY ONE of the following	110 10
	1.	Discuss in detail about mechanism of repair of damaged DNA	1x10=10)
	2.	Write an essay on the ethical issues related to use of genetically modified foods.	
		to disc of generically modified foods.	

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