

KERALA AGRICULTURAL UNIVERSITY B.Tech.(Food Technology) 2023 Admission III Semester Final Examination –January 2025

Pafe.2112

Industrial Microbiology (2+1)

Marks: 50 Time: 2 hours

I		Define the following	(10x1=10)
	1.	Define Secondary metabolites	
	2.	Define Fermentation	
	3.	Define thermal death time	
	4.	Define Sterilization	
	5.	Define fermented foods	
	6.	Define Baffles	
		Fill in the blanks	
	7.	Bacteriocins are toxins pr	oduced by bacteria
	8.		oidal particles come out of suspension to sediment
		in the form of floc or flake	
	9.	Nisin is a polycyclic antibacterial peptide produced by the bacterium	
		Answer the following	
	10.	Name an enzyme used in cell disruption	
II		Write short notes on ANY FIVE of the foll	owing (5x2=10)
	1.	Microbial enzymes	
	2.	Streak plate method	
	3.	Steam Sterilization of fermentor	
	4.	Mechanical Cell disruption	
	5.	Crystallization	
	6.	Airlift fermentor	
	7.	Enrichment culture technique	
ш		Answer ANY FIVE of the following	· (5x4=20)
	1.	Give an account on preservation of microbes	
	2.	Explain briefly the sterilization of microbial	media using heat
	3.	Role of probiotics in fermented foods	•
	4.	Primary screening of microbes	
	5.	Filtration techniques used in downstream pro	cessing
	6.	Solid state fermentation	over the same of t
	7.	Continuous sterilization	
	/.	Continuous stermization	
IV		Write an essay on ANY ONE of the follow	
	1.	Purification and packaging steps in downstre	
	2.	Industrially important secondary metabolites	