

## KERALA AGRICULTURAL UNIVERSITY B.Tech.(Food Engg) 2017 Admission IV Semester Final Examination- June 2019

Dairy Engineering and Technology (2+1)

Marks: 50 Time: 2 hours (10x1=10)

I		Fill up the following blanks: (10x1=10)
	1	is the inventor of homogenizer with 3 piston pump.
	2	part of ice cream freezer facilitates faster heat transfer by changing of ice ream
	2	mix film from freezer cylinder.
	3	As per FSSAI, the tonned milk shall contain% fat and% SNF.
	4	The equation for calculating regeneration efficiency of HTST pasteurizer is
	5	The ideal temperature for churning of cream is°C.
	6	For packaging of milk, the FFS machine stands for
	7	The over run in butter is %.
	8	When there are common cleaning solution tanks for all plant equipment connected through
		the network of pipes, it is called CIP system.
	9	In drum dryers, the knife fixed for scraping the dried milk film is called
	10	pump is most suitable for handling the aerated liquid returning from
		CIP lines.
II		Write Short notes on any FIVE of the following (5x2=10)
	1	Chemical composition of milk.
	2	Advantages of HTST pasteurization over LTLT pasteurization.
	3	Aseptic tank.
	4	Method of manufacturing processed cheese.
	5	Different stages of straight through can washer.
	6	Softy ice cream making.
	7	Criteria for selection of a land for installing a dairy plant.
III		Answer any FIVE of the following. (5x4=20)
	1	Dairy Development in India.
	2	Milk storage tanks.
	3	Derive the equations for cream separation rate under gravitational force and centrifugal force.
	4	UHT processing of milk.
	5	Atomizers in spray drying plant.
	6	Can washers.
	7	Continuous ice cream freezer.
IV		Answer any ONE of the following (1x10=10)
	1.	HTST pasteurizer with all its components and functions.
	2.	Cheese making equipment with neat diagram.

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