

KERALA AGRICULTURAL UNIVERSITY

B.Tech.(Food Engg) 2016 Admission IV Semester Final Examination-July 2018

Fden.2206

Dairy Engineering and Technology (2+1)

Marks: 50 Time: 2 hours

I		Fill up the following blanks: (10x1=10)
	1	Raw milk has to be processed within hours to avoid spoilage
	2	Milk is anemulsion
	3	Sterilization efficiency was analyzed bytest
	4	is responsible for the yellow colour of butter
	5	is defined as the volume of ice cream obtained in excess of the volume of the mix
	6	Rennet contains andenzymes
	7	is a process by which dried milk products are made instant soluble
	8	Homogenization increases the whitening power of milk because of
	9	rays used in manufacture of irradiated milk
п		Write Short notes on any FIVE of the following (5x2=10)
	1	Principles of pasteurization
	2	Tunnel freezer
	3	Over run in Butter
	4	Stages in can washing.
	5	Nutritive value of milk
	6	Agglomeration
	7	Corrosion control
ш		Answer any FIVE of the following. (5x4=20)
	1	Various cooling methods used in dairy industry
	2	Direct heating of UHT processing
	3	Effect of homogenization of milk
	4	Compare: clarifiers and separators
	5	Manufacturing method of flavored milks
	6	Differentiate: centralized and de-centralized CIP systems
	7	Illustrate: working principle of drum drier with diagram
IV		Write an essay on any ONE of the following (1x10=10)
	1.	With neat diagram explain the components and working principle of spray drier
	2.	Consider you are a R&D manager in Amul. You are assigned to develop a new flavored
		cheddar cheese. Prepare and submit the detailed manufacturing method of your own
		choice flavored cheddar cheese with neat flow sheet.
