

## KERALA AGRICULTURAL UNIVERSITY B.Tech.(Food Engg) 2016 Admission

## IV Semester Final Examination-July 2018

Fden.2206

I

II

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IV

## Dairy Engineering and Technology (2+1)

Marks: 50

Time: 2 hours Fill up the following blanks: (10x1=10)Raw milk has to be processed within ...... hours to avoid spoilage 2 Milk is an.....emulsion Sterilization efficiency was analyzed by .....test 3 .....is responsible for the yellow colour of butter 4 .....is defined as the volume of ice cream obtained in excess of the volume of the mix 5 Rennet contains ...... and .....enzymes 6 ..... is a process by which dried milk products are made instant soluble 7 Homogenization increases the whitening power of milk because of ..... 8 .....rays used in manufacture of irradiated milk 9 Write Short notes on any FIVE of the following (5x2=10)Principles of pasteurization 1 2 Tunnel freezer 3 Over run in Butter 4 Stages in can washing. 5 Nutritive value of milk Agglomeration 6 7 Corrosion control 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 Differentiate: centralized and de-centralized CIP systems Illustrate: working principle of drum drier with diagram Write an essay on any ONE of the following (1x10=10)With neat.diagram explain the components and working principle of spray drier 1. Consider you are a R&D manager in Amul. You are assigned to develop a new flavored 2.

cheddar cheese. Prepare and submit the detailed manufacturing method of your own

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choice flavored cheddar cheese with neat flow sheet.