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## No. of Printed Pages: 03 1

## Sardar Patel University

MSc. HSc. II Semester NC (cld CBCS)

## External Theory Examination

CBC5: PH02EFDN01/PH02EFBT01: Advanced Food Processing Technology

Date: 6/12/2012 (Thursday) Time: 10:30A, M. – 1:30 P.M.

Total Marks: 70

## Multiple Choice Questions (Select the correct answer)

(8)

- Churning of "Dahl" made from whole milk gives:
  - a) "Desi" butter
  - b) Dairy butter
  - c) Table butter
  - d) None of the above
- One molecule of lactose gives:
  - a) One molecule of lactic acid
  - b) Two molecules of lactic acid
  - c) Three molecules of lactic acid
  - d) None of the above
- 3. "Dahi" prepared at home level shows varying taste from house to house because:
  - a) Milk quality is different
  - b) Starter culture is different
  - c) Both a. & b.
  - d) None of the above
- Fermented milk preparations are superior to milk because;
  - a) Nutritive value is increased.
  - it is more easily absorbed by the human system than milk.
  - c) Both a. & b.
  - (f) Neither a. nor b.
- KQB stands for
  - a) Inspective Quick Blanching
  - b) Individual Quick Blanching
  - c) Insulated Quick Blanching
  - d) None of the above
- Which one of the following tests indicates the microbial quality of milk:
  - a) Alcohol test
  - b) Total solids:
  - a) MBRT
  - d) None of the above
- Synthetic flavor is added in butter because natural ripening of cream for flavor development is:
  - a) An expensive procedure.
  - b) Time consuming

(P.T.O.)

	cì	Both 3. & 5.				
	-		wiee (n			
A.	 A 1	Heat exchanger with a flat - surfaced plate on the front side ficted with a country				
٠.	olo	sipes at the back side of the plate indicates:				
	al al	Plate Heat Exchanger				
	b)	that Cuchanger				
	c)	and the second s				
	d)	· · · · · · · · · · · · · · · · · · ·				
	٠,	•	[14]			
ß.		Explain briefly (any Seven) :	14.79			
	1.					
	2.					
	3.					
	4.	to the state of face will.				
	5.	Havoured milk preparation.				
	6.					
	7.	Sweet cream butter.				
	8.	'khoa' manufacture.				
	9,	, Merits of C.I.P.				
A) B)	R	QA is compulsory. Answer any one Q, from or Give the definition of market milk. Name the major and minor constituents of milk and n five factors affecting the composition of milk. What is meant by 'platform tests' of milk? N four 'platform tests' of milk. Describe the following physico — chemical properties of milk:	ame any (6)			
		i, acidity				
		ii. specific gravity iii. freezing point	(6)			
		GR.	_			
_		What is meant by 'standardization' of market milk? Explain Pearson's square method for t	the same.			
. В	,	What is meant by 'standardization' of market milk popular to make mediculate how many parts by weight of 35% cream and 2% milk must be mixed to make m	ijk testing			
		4.5% fat?	(6)			
''	γ.	What is flavoured milk? Give the flow chart for it's manufacture and explain the manu	facture of			
. *	IJ .	any one type of flavoured milk which you have studied.	(6)			
		What is cream? Explain the following terms related to cream:				
E						
		i) Market cream ii) Manufacturing cream				
		й) Table cream	ic1			
		iv) Whipping cream	(6)			
		til confebruaries	٠			

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QR

IV.						
A)	Explain	what is meant by butter as per PFA rules. Give the approximate composition of butt	ter. (6)			
B)	Explain	the following steps under butter manufacture:	1-1			
-	ij	Neutralisation of cream				
	li)	Ageing of cream				
	III)	Churning of cream	(6)			
٧.						
A)	Explain	what is butter oil. Give the nutritive value of the same.	[3]			
B]	Explain the manufacture of butter oil by the following two methods:					
	i)	Direct evaporation				
	16)	Centrifugal separation followed by vacuum drying.	(9)			
		QR				
٧.			(3)			
A)	What is cheese? Give the approximate composition of cheese.					
B)	Explain the following steps in the manufacture of cheese:					
	i)	Adding starter				
	16)	Rennetting				
	iil)	Cooking				
	iv)	Salting	(9)			
٧ı.	I. Write short notes on ( any four)		(12)			
1,	Physico – chemical properties of cream					
2.	Manufacture of yoghurt.					
3.	Manufacture of skimmed milk powder					
4.	ice cream manufacture.					
5.	Biscult manufacture.					
6.	Isolation of starch from potato.					

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