(6 pages) Reg. No.:					3.	Pasteurized milk can be kept fresh for ———————————————————————————————————				
Code No.: 10748 E Sub. Code: ESCH 21				ESCH 21		(a)	6	(b)	7	
	B.Sc. (CBCS) DEGREE EXAMINATION,			N		(c)	5	(d)	10	
APRIL 2024.					4.	methods are widely used to pasteurize				
Second Semester						(a)	three	(b)	two	
Chemistry						(c)	one	(d)	none of these	
Skill Enhancement Course — DAIRY CHEMISTRY					5.	5. ———— litres of whole milk are needed to				
(For those who joined in July 2023 onwards)						(a)	luce 1 kg of butte		_	
Tin	ie : Th	ree hours	Maximum:	75 marks		(c)	25	(p)	6	
PART A — $(10 \times 1 = 10 \text{ marks})$					6.			(d) umber	is important in the	
Answer ALL questions.						anal	lysis of butter fat	•	in the	
Choose the correct answer.						(a)	Reichert-Meisse	el (b)	Reichert Mark	
1.		——— contain n	o disulphide bonds			(c)	Reichert John	(d)	None of these	
	(a) Casein (b) Micelle				7.	The term — milk is commonly use		lk is commonly used		
	(c)	Globulin	(d) Albumin	2513		when referring to full cream unsweetened condensed milk.				
2.	The composition of protein in milk is					(a)	condensed	(b)	skimmed	
	(a)	4.6%	(b) 0.65%			(c)	evaporated	(d)	sweetened	
	(c)	87.3%	(d) 3.25%						Code No. : 10748 E	
8.	Milk is deficient in vitamin ————				13.	(a) Explain about the adulterants present			ulterants present in	
	(a)	A (b) D				ghee.				
	(c)	C .	(d) None of the	ese		<i>a y</i>		Or		
9.	In the spray-drying of milk products, ————					(b)	Explain:			
ο.	is in an amorphous state.					(i) Desi butt				
	(a)	sucrose	(b) glucose				(ii) Salted but	ter		
	(c)	fructose	(d) lactose		14.	(a)	Explain the follo	wing te	rms:	
10.	. The water ratio ranges from ———— which comes from the milk or other ingredients.						<ul><li>(i) Toned mill</li><li>(ii) Flavoured</li></ul>			
	(a)	53% to 63%	(b) 55% to 64%	6			(	Or		
	(c)	43% to 53%	(d) 45% to 54%	6		(b)	Discuss about re	constitu	uted milk.	
PART B — $(5 \times 5 = 25 \text{ marks})$					15.	(a) What are Bulgarious and acidophilous milk? Or				
Answer ALL questions choosing either (a) or (b).  Each answer should not exceed 250 words.						(b) Briefly explain about the emulsifiers in the ice cream.				
11.	(a) Write the composition of milk.			40.			PART C — (5	× 8 = 40	marks)	
		Or			Answer ALL questions choosing either (a) or (b).					
	(b)	(b) Write a note on milk lipids.			End and I do I do					

12. (a)

(b)

Explain HTST.

Or

Explain about the batch pasteurization.

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Each answer should not exceed 600 words.

(a) Give an account of the minerals present in milk.

Or

- (b) Explain in detail the factors that affect the composition of milk.
- 17. (a) Explain the following:
  - (i) Bottle pasteurization
  - (ii) HTST

Or

- (b) Discuss about the types of pasteurization.
- 18. (a) Write short notes on:
  - (i) Theory of churning
  - (ii) Classification of cream

Or

- (b) Explain about:
  - (i) Rancidity
  - (ii) Synergists
- 19. (a) Explain the following terms:
  - (i) Standardized milk
  - (ii) Humanized milk

Or

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- (b) Write about the composition and nutritive value of condensed milk.
- 20. (a) Discuss in detail the need and the process of making milk power.

Or

(b) Explain about the stabilizers in ice cream.

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