BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BRANCH	IMSC : FT		· · · /	SEMESTER : VI SESSION : SP/19	
		SUBJECT: IMF6001 DAIRY TI	ECHNOLOGY		
TIME:	3.00 Hrs.			FULL MARKS: 60	
INSTRUC 1. The c 2. Cand 3. The r 4. Befor 5. Table	CTIONS: question paper contai idates may attempt a nissing data, if any, n re attempting the que s/Data hand book/Gr	ns 7 questions each of 12 marks a ny 5 questions maximum of 60 ma nay be assumed suitably. Istion paper, be sure that you have aph paper etc. to be supplied to th	nd total 84 marks. Irks. e got the correct question he candidates in the exami	paper. nation hall.	
Q.1(a) Q.1(b) Q.1(c)	What are the salient What are the chemica Discuss in detail Phys	eatures of three phases of Operation al and microbiological causes of off ical and chemical properties of milk	on Flood? flavor in milk? <.		[2] [4] [6]
Q.2(a) Q.2(b)	Define Standardized i What are the causes (i)melamine (ii) form	nilk, Toned milk, Double toned, Ski s of use and the methods of details alin (ii) sodium bicarbonate (iv) salt	mmed milk, and Full cream ection of the following ad	milk. Iulterants in milk:	[2] [4]
Q.2(c)	Describe Milk reception	on, weighing, sampling, chilling and	I storage of raw milk. List th	ne platform tests.	[6]
Q.3(a) Q.3(b)	What are various che Distinguish between A method (ii) Refining (nicals and sanitizers used for CIP of AMF and Ghee. Write technical not	f Dairy plant? es on (i) Ghee making using	g pre-stratification	[2] [4]
Q.3(c)	Describe with flow sh 10,000kg of 7% milk i Miscellaneous fat loss much butter is packe [Amount of Buttermil Weight allowance is 1	eet continuous method of butter ma s received. 40% cream is separated ses are 0.5% of total fat received in d for sale ? What is the percentage k = kg cream - 1.20 x fat in cream 0 g for 1 kg pack]	aking. I. Skim milk tests 0.1%. Butt n whole milk. Butter contai overrun?	termilk tests 0.5%. ins 80.5% fat. How	[6]
Q.4(a) Q.4(b) Q.4(c)	What are tests for wh Describe (i) semi-ope Sketch the flow path plant, Define % Reger A holding time of 15 diameter of the pipe f factor of 0.85.	ipped cream? n and hermetic cream separator (ii) s in Cooling, Regeneration and pas leration. Describe process of UHT p sec is required in a pasteurization p to be used is 48.5 mm. Calculate the	In container sterilization, steurization in Plate Heat I asteurization with direct ste plant with a capacity of 10 length of the holding tube,	Exchanger in Dairy eam injection. 000 l/h. The inner with the efficiency	[2] [4] [6]
Q.5(a) Q.5(b) Q.5(c)	Sketch and describe (What are different ty Sketch flow diagram i drinking yoghurt. Hov	Contherm-Convap System. pes of khoa? Sketch equipment and mentioning process parameters in ea v is Chakka made?	explain continuous khoa ma ach step, for the production	aking process. of set, stirred and	[2] [4] [6]
Q.6(a) Q.6(b) Q.6(c)	Distinguish between I Sketch flow diagram, emulsifier and stabili State in detail steps animal origin, used fo	cecream and Kulfi. describe the process for ice cream r zer used for ice cream? involved in cheese making. What a or cheese making? Sketch a continuc	naking and explain purpose are different types of Renr ous system for making chedo	of each step. What net from plant and lar cheese.	[2] [4] [6]
Q.7(a) Q.7(b) Q.7(c)	What is a malted drin What are different No Give flow sheet for co Describe methods for	k? In Dairy Milk Alternatives? Compare Indensed milk preparation. What ar Instant milk powder manufacture.	their characteristics and us e the methods of preparation	se. on of powder milk?	[2] [4] [6]

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