Enrollment No:_____

PARUL UNIVERSITY

FACULTY OF AGRICULTURE

B.Tech. (Dairy Technology) Winter 2019 - 20 Examination

Semester:3 Subject Code: 20104204 Subject Name: Traditional Indian Dairy Products Date: 27/11/2019 Time: 10:30am to 12:30 pm Total Marks: 50

Fill : i)	in the blanks (Each of 0.5 marks) Water activity of khoa at normal moisture content is	(05
ii)	A product very similar to gulabjamun but having a base material of mixture of khoa and chhana is known as	
iii)	The yield of finished rasogolla (drained) per 100 g cow milk chhana is	
iv)	According of FSSAI (2006), the fat content of shrikhand should not be less than	
v)	The desired fat :MSNF ratio to be kept in milk for paneer making should be	
vi)	Chhana balls are preferably cooked in cooking sugar syrup havingstrength for Rasogolla manufacture	
vii) viii)	is the indigenous product prepared by baking process Chhana obtained bycoagulant is preferred for rasogolla making	
ix) x)	Danedar khoa is used for making is added to buffalo milk to prepare good quality chhana	
i)	 Durlato milk is found suitable for manufacture of fonowing dairy products: A. Rasogolla and Cheddar cheese B. Evaporated milk and sterilized cream C. Mozzarella cheese and paneer D. All of the above The % ash in khoa is 	
iii)	A. 25.5 B. 0.7 C. 19.5 D. 3.8	
	Sweetened variety of dahi popular in eastern India is A. Shrikhand B. Misti Doi C. Lassi D. Dahi kusum	
iv)	As per FSSAI, the fat content of khoa shall be A. Not less than 37 % B. Not less than 40 %	
v)	C. Not less than 20 %D. Not less than 25The coagulants legally permitted by FSSAI for chhanna making areA. Lactic acidB. Citric acidC. Previous day sour wheyD. All the above	
vi)	Good chhanna from buffalo milk can be prepared when milk is added with A Di sodium phosphate B Di sodium hydrogen phosphate C	
vii) viii)	A. Di soutum phosphateD. Soutum nyulogen phosphate C.Tri sodium citrateD. Sodium tri silicate	
	Browning in rasogolla cans can be prevented by filling A. Sulphur dioxide in cans C. Nitrogen gas in cans D. Hydrogen sulphitein cans	
	For preparation of khoa the fat level in buffalo milk is usually adjusted	

	to	
	A. 4% B. 5% C. 3.5% D. 4.5%	
ix)	The following mineral is lower in shrikhand prepared from buffalo	
	milk compared to cow milk	
	A. potassium B. magnesium C. calcium D. phosphorus	
x)	The concentration of sugar syrup for soaking of gulabjamun balls after	
	frying should be	
	A. 40.8 B. 62.5 C. 52.6 D. 45.2	
xi)	The per cent free fat desired in a good sample of burfi is	
,	A. 25 - 30 B. 50 - 55 C. 67 - 69 D. 80 - 85	
xii)	The ideal temperature for heat desiccation during manufacture of burfi	
,	is about	
	A. 70 C B. 80 C 90 C D. 100 C	
xiii)	Good quality kalakand is obtained by using sugar (% by weight of	
,	milk) at the rate of	
	A. 5 B. 6 C. 7 D. 8	
xiv)	The approximate total solids content of basundi is	
	A. 20 – 25% B. 49 – 57% C. 39 – 45% D. 15 – 20%	
xv)	The approximate quantity of citric acid (in kg) required to coagulate	
	1000 litres of milk is	
	A = 18 - 20 $B = 3 - 4$ $C = 05 - 07$ $D = 5 - 6$	
xvi)	The per cent sugar content in mishti dahi is approximately	
	A 12 -13 B 8 -9 C 17 -18 D 20-22	
xvii)	The percentage yield of paneer manufactured form buffalo milk under	
	ontimum conditions	
	A 16-18 B 20-22 C 14-15 D 25-26	
xviii	The acidity (expressed as % lactic acid) of freshly prepared shrikhand	
A V III	is about	
	A = 0.5 + 0.6 B 1-11 C 14% D 18%	
xix	Vield of the paneer is	
MIX	A 10 B 20 C 30 D 40	
хх	'Kacchagolla' is a variety of following indigenous sweet meat	
АА	A Resognalla B Kalajam C Rajbhog D Sandesh	
	A. Rusogona D. Rangani C. Rujonog D. Sundesh	
	Define the following(Any five out of seven questions)	(05)
(1)	Khurchan	(05)
(1) (2)	Pavasam	
(2) (3)	Milk cake	
(3) (4)	Basundhi	
(1)	Rabri	
(5)	Shrikhand	
(0) (7)	Kalajamun	
(\prime)	ixuujuniun	
Answ	er the following (Any five out of seven questions)	(05)
(1)	For Paneer manufacturing Buffalo milk is preferred than Cow milk	(03)
(1) (2)	During gulabiamun manufacturing small amount of milk is added to	
(2)	sugar syrup	
(3)	The vield of khos from buffslo milk is more	
(3)	Cow milk vields good quality change	
(+)	Scrapped surface heat exchangers are considered advantageous in	
(\mathbf{J})	terms of heat transfer rates	
(6)	Shrikhand has fairly long shalf life at 8^0	
(0)	Based and the state of the second sec	
()	Kasogona uppeu ni not water aner cooking	
XX7	as short notes (Any five out of six questions)	(10)
vv File	s short hotes (Any five out of six questions)	(10)

Q.2 A)

B)

Q.3

- (1) Write a short note on preservation of paneer.
- (2) What do you mean by overrun in khoa
- (3) Give the classification of Traditional Indigenous Dairy Products
- (4) Give standard for A. Ghee (AGMARK)

B. Paneer (FSSAI).

- (5) Compare between physical quality of cow and buffalo milk khoa
- (6) Discuss in detail the factors affecting quality of chhana

Q.4 Long Question ((Any three out of four questions)

(15)

- (1) Explain in detail the operation of continuous khoa making machine.
- (2) Explain manufacturing process of rasogolla with flow diagram.
- (3) Describe in detail the process for manufacturing of Paneer with flow diagram.
- (4) Describe the industrial method for Gulabjamun manufacture.