DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH , AKOLA SEMESTER END THEORY EXAMINATION

B.Sc.(Agriculture/B.Sc.(Hons.) Agriculture

Semester	:	V (New)	Term	:	II	Academic Year	:	2021-2022
Course No.	:	AHDS-353 (New)	Title	:	Technology of Milk and Milk Products			
Credits	:	2(1+1)						
Day &	:	12.11.2021	Time	:	1.00Hr	Total Marks	:	40
Date								

Note :- 1) Solve ANY FOUR Questions from SECTION-A

- 2) Solve ANY SIX Questions from SECTION-B
- 3) All Questions from SECTION -C are compulsory
- 4)Send the PDF file of answer sheet to the email id of respective course teacher

Model answer book Section "A"

Q.1. Solve any four, Answer in four to five line

(Marks 16)

1	Write in brief about AGMARK standards			
Ans	AGMARK is an abbreviation of 'Agriculture Marketing which provides quality			
	standards for grading, packaging and marketing of Agriculture and Animal			
	Husbandry products through the Agriculture produce (grading and marketing)			
	Act 1937, as amended in 1986.			
2	Enlist the Physio-chemical properties of milk			
Ans	(1) Physical state of milk (2) Acidity & pH of milk (3) Specific gravity			
	(4) Freezing point (5)Boiling point (6) Colour of milk (7) Test &odour			
	(8) Specific heat (9) Viscosity (10) Electric conductivity			
3	Define packaging and enlist the various system of packaging			
Ans	Packaging can be defined as a tool that protects and contain our good with the aim			
	of minimizing the environmental impact of our consumption The system of			
	packaging are as follow (1) Modified atmosphere packing (MAP) (2) Vaccum			
	packing (3) Aseptic packing (4) Retort Packing (5) Active packing			
4	Write down the Utilization of whey for value added products			
Ans	Utilization of whey for value added products :- Whey is used for preparation of			
	whey power, flovour whey, dried whey, conc. Whey, condensed whey. It has			
	antibodies, it is a body building food.			

5	Write down the advantages of HTST method of pasteurization
Ans	(1)Quick heat treatment of milk (2) Less floor space is required (3) Less initial cost
	(4) Equipment are easily cleaned and sanitized (5) Less milk losses (6) Lower
	operating cost due to regeration system (7) The process can be interrupted and
	restarted (8) Automatic precision control ensures positive pasteurization

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Section "B'

Q. 6 Write in one sentence (Solve any six) (Mark 12)

a	One liter of buffalo milk of average composition yield of khao	220gm
b	Colour of Buffalo milk is white due to	Casein
c	How much percent of fat present in fat rich product	99.9%
d	Define specific gravity of milk	Specific gravity is the ratio of density of milk to density of water
e	Define Over run in ice-cream	The volume of ice cream obtained in excess of the volume of the mix
f	Name the preservatives use in milk products	Formalin, sodium benzoate, potassium sorbate
g	Define Starter culture	It is selected group of organism which brings
		desirable changes in milk and milk products

Section "C"

Q.7 Choose the correct answer

(Marks 12)

a	6.7 To 6.8
b	Lactose
c	87-90
d	BIS
e	Butter –milk
f	Centipose

g	8.5	
h	-0.547 ° C	
i	Casein	*
j	Standardization	
k	1.030 -1.032	
1	All above	