# INSTITUTE FOR EXCELLENCE IN HIGHER EDUCATION

#### **ВНОР**&L

DEPARTMENT OF FOOD SCIENCE AND QUALITY CONTROL

## Workshop on question bank

## **Dairy Management**

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## **Dairy Management**

## MCQs (70)

1.	Objective of pasteurization is to –
	a) To reduce the shelf life
	b) To increase enzyme activity
	c) To kill most of the bacteria which are disease causing
	d) To increase the fat content of the milk
2.	Water adulteration in milk is detected by which instrument?
	a) Refractometer
	b) Lactometer
	c) Viscometer
	d) Hygrometer
3.	Gerber test is used to determine
	a) Fat content
	b) Protein content
	c) SNF content
	d) Acidity
4.	What is the principal carbohydrate in the milks of all mammals?
	a) Lactose
	b) Glucose
	c) Sucrose
	d) Fructose
5.	Principal protein in milk is:-
	a) Albumin
	b) Lactalbumin
	c) Casein
	d) Lactoglobulin
6.	Milk is a good source of all water-soluble vitamins except for
	a) Cyanocobalmin
	b) Riboflavin
	c) Ascorbic Acid
_	d) Thiamine
1.	is a milk process that makes milk more easily digested by those with a sensitive
	digestive system.
	a) Ionization
	b) Evaporation

c) Pasteurizationd) Homogenization

	8.	What is the application of any effective method or substance to a clean surface for
		destruction of pathogen is called?
		a) Pasteurization
		b) High Temperature Treatment
		c) Sanitization
		d) Cleaning
	9.	The process of raising or lowering the percent of fat in milk or cream to a desired
		standard is called?
		a) Enrichment
		b) Fortification
		c) Standardization
		d) None of the above
	10.	. What substance is used as a coagulative for preparation of paneer?
		a) Formic acid
		b) Citric acid
		c) Sulphuric acid
		d) Nitric acid
	11.	. The fat content in milk generally increases by?
		a) Final strippings from the udder
		b) Indigenous breeds as compared to exotic breeds
		c) More roughage portion in diet
		d) All of the above
	12.	. Which of the following material is used for heat transfer in the dairy industry?
		a) Copper
		b) Stainless steel
		c) Platinum
		d) Iron
	13.	. What form of milk is made by the churning of whipping cream?
		a) Butter
		b) Cream
		c) Ghee
		d) Curd
	14.	. Which of the following has the largest particle size in milk?
		a) Casein micelles
		b) Lactose
		c) Minerals
		d) Fat globule
15.		Is the basis for checking pasteurization efficiency of milk?
	a) F	Peroxidase and catalase test

	a) Dispersed form b)Colloidal form
	c)Emulsion form d)All of the above
17.	Butter Flavor is due to
	a) Ammonia
	b) Diacetyl
	c) Ethylene
	d) Vanillin
18.	Lactometer can be used to
	a) Find adulteration of milk by water
	b) Find the specific gravity of milk
	c) Both a and b
	d) Neither a nor b
19.	The product remaining after removal of most of the casein and fat from milk in the process of cheese
ma	king
	a) Whey butter
	b) Whey cheese
	c) Whey
	d) Condensed whey
20.	Milk fat is
	a) Gas in liquid emulsion
	b) Water-in-oil type emulsion
	c) Colloidal state
	d) oil-in-water type emulsion
21.	Which of the following aspect of milk decides its market price
	a) Solid content
	b) Color
	c) Fat content
	d) All of the above
22.	Micro-organism involved in yogurt formation is

b) Phosphate test c)Amylase test

d) None of the above

16. Casein is present in milk in

	o) Lactobacillus c) Streptococcus
	l) Both b and c
23. V	Which of the following factors affect composition of milk
ā	a) Breed
	o) Interval of milking
	Stage of lactation
(	I) All of the above
24. T	emperature of UHT sterilization is –
	n) 72° C
	o) 100° C
	c) 125° C I) 145° C
	H of milk is
	n) 9.2
	b) 14
	c)6.4-6.9
	J) 3.4
26. F	irst milk that a cow produces after calving is
á	a) Colostrum
	o) Whey
	c) Casein
	l) Fodder
27. S	terilized milk can be stored at least for
	n) One day
	o) One week
	d) One month
	ellowish tinge in milk can be attributed to which of the following?
20. 1	
	a) Carotene b)Water
	c) Riboflavin
	d) Metalin
29. A	fter centrifugation of milk, the supernatant is?
	a) Fat
	b) Whey

	c) Casein d) Water
30. Pe	ercentage of mineral matter in milk is?
	a)2.5 %
	b)5 %
	c)0.7 %
	d) None of the above
	hat is the application of any effective method or substance to a clean surface for the destruction athogen called?
	a) Pasteurization
	b) High Temperature Treatment
	c) Sanitization
	d) Cleaning
32. W	hich of the equipment is used for chilling of milk in dairy?
	a) Refrigerator
	b) Freezer
	c) Dry ice
	d) Heat exchanger
33. M	ilk provides and in approximately the same ratio as found in bone.
	a) Calcium and Magnesium
	b) Calcium and Phosphorous
	c) Calcium and Iron
	d) Phosphorus and Magnesium
34. W	hich of the following is the effect of homogenization on the appearance of milk?
	a) Whitish Appearance
	b) Yellowish appearance
	c) Blackish appearance
	d) Dusty appearance
35. W	hich governing body sets the limit of fat percent in different types of milk available in the mark
	a) WHO
	b) Apeda
	c) FSSAI
	d) FCI
36. W	hich of the following processes is given major importance in dairy farm management?
	a) Increase in yield and quality of milk
	b) Increase in size of cattle

- d) Increase in number of buffaloes
- 37. Which of the following has to be done in order to realize the yielding potential?
  - a) Cattle should be left on their own
  - b) Cattle should be well looked after
  - c) Cattle should be fed every alternate day
  - d) Quantity of fodder should be unlimited
- 38. A milk product plant can be located preferably in a village location due to the following reasons;
  - a) Proximity to the milk shed, reduced transportation cost for raw material
  - b)Increased shelf life of the product when compared to the raw material
  - c) Availability of cheap land and labor
  - d) All of the above
- 39. The features of the plant considered during preparation of process schedule are:
  - a) Reception capacity,
  - b) Unit processing cost,
  - c) Installed capacity of the plant
  - d) All of these
- 40. What is the capacity of a single room system cattle shed?
  - (a) It is 40 50 cattle.
  - (b) Minimum 10 15 cattle.
  - (c) It is 15 20 cattle.
  - (d) Maximum 35 45 cattle
- 41. What is the maximum width of a cattle shed in face to face system?
  - (a) The maximum width of cattle shed is 30 feet.
  - (b) The maximum width of cattle shed is 45 feet.
  - (c) The maximum width of cattle shed is 15 feet.
  - (d) The maximum width of cattle shed is 37 feet.
- 42. Which is not a structure of a dairy farm?
  - (a) Milk recording room.
  - (b) Heifer shed.
  - (c) Labour room.
  - (d) All are the structure of a dairy farm
- 43. Which is not a good method of thumb knot?
  - (a) Fisting method.
  - (b) Full hand milking.

	(d). All of the above.
44. N	Nachine milking is popular in?
	(a) India.
	(b) Sri Lanka.
	(c) Pakistan. (d) Western developed countries.
4F A	dairy cow should have
45. A	
	(a) Globular body shape.
	(b) Triangular body shape.
	<ul><li>(c) Rectangular body shape.</li><li>(d) None of the above.</li></ul>
46. T	he time and temperature combination in plate pasteurization is
	a) 63°C for 30 minutes
	b) 72°C for 15 seconds
	c) 72°C for 15 minutes d) 134°C for 30 minutes
	d) 134 C for 30 fillilates
47. T	he major advantage of weaning cows is:
	a) To get clean milk
	b) To get strong calves
	c) To get continuous milk
	d) Increase milking efficiency
48. T	he animal gets swelling on hind quarters, shoulders and neck, limps and on pressing the affec
parts	, makes crepitating sound in the disease:
á	a) Black quarter
	o)Haemorrhagicsepticaemia
	c) FMD d) Rinderpest
	ne origin of Holstein-Friesian cow breed is
-	olland
-	otland vitzerland
-	gland
d) En	

	a) Izzatnagar
	b) Hisar
	c) Mathura
	d) Bogor
51. V	Vho is known as the father of the white revolution in India?
	a) Herbert Boyer
	b) VergheseKurien
	c) M.S. Swaminathan
	d) Charles Darwin
52. V	Which of the following is an example of milchbreeed.
	a)sahiwal
	b)Nageri
	c)halikar
	d)malvi
53. V	Vhy do buffaloes prefer to go in the water during summers
	a) they are lazy
	b) they like water
	c) they like taste of water
	d) they have low heat tolerance
54. V	Which breed of cows has good milk production as welll as includes male with good working capac
	a)milch breed
	b)exotic breed
	c)general utility breed
	d)draught breed
55. A	type of dairy farming in which only lactating animals are reared is
	a) specialised farm
	b)family cow
	c)corral dairying
	d) milk colonies
56. V	Vhich of the following is not a diary product?
	a) Custard
	b) Ice Cream
	c) Fermented milk
	d) Coconut milk

c) United States Dairy Export Center d) United States Dairy Export Company hy dairy products are required for human body? a) Important source of nutrients
hy dairy products are required for human body?  a) Important source of nutrients
a) Important source of nutrients
h) los parte et fa a discussa
b) Important food source
c) They're not important
d) Because they're available abundantly in nature
the listed below products, which contains no dairy ingredients?
a) Sorbet
b) Gelato
c) Custard
d) Sherbet
hich of the following membrane separation technique would be most suitable for the ntration of milk proteins in dairy industry?
a) Nano filtration
b) Ultra filtration
c) Membrane filtration
d) Reverse osmosis
hich of the following material is used for heat transfer in the dairy industry?
a) Copper
b) Stainless steel
c) Platinum
d) Iron
ater adulteration in milk can be detected by which among the following instrument?
a) Refractometer
o) Pasteurizer
c) Homogenizer
) Lactometer
t r

57. What is the USDEC?

a) United States Dairy Export Council

a)	Protein percent in milk
	Fat percent in milk
	Acidity of milk
d) :	SNF % in milk
64. Whi	ch of the following cows gives maximum yield of milk?
a	) Jersey
	) Holstein
	) Sahiwal
d)	) Red Sindhi
65. Met	hods of clean milk production includes following things.
a)	Health of the herd
-	Clean animals
	Clean surroundings
d)	) All above
66. Perd	centage of water in buffalo milk is:-
	a) 65-67 %
	b) 70-75 %
	c) 80-85 %
	d) 87-90 %
67. Und	er which of the following weather conditions would you expect to observe the greatest decrease
	/ield per cow?
	a) Cold and dry
	b) Hot and humid
	c) Cool and humid
	d) Warm and dry
68. Whi	ch enzyme is tested for cream pasteurization?
	a. Plasmin
	b. Phosphatas
	c. Catalase
	d. peroxidase
69. Whi	ch among the following is absent in milk-
	a) Cyanocobalmin
	b) Riboflavin

- c) Ascorbic Acid
- d) Thiamine
- 70. The high nutritive value of cheese is due to
  - a. High mineral contents
  - b. High protein contents
  - c. Taste & flavor
  - d. All of the above

#### Short Answer type (20)

- 1. What are the factors that are to be considered while selecting the site and location of dairy plant?
- 2.Describe points to be considered in cleaning and sanitization of dairy plants.
- 3. Describe about the process used in preservation of raw milk.
- 4. What are the major and minor constituents of milk.
- 5. What are the factors affecting quality and quantity of milk?
- 6. What is difference between Pasteurized and sterilized milk?
- 7. Explain in brief about different types of heat treatments included in milk processing.
- 8. Throw some light on the specifications related to storage and distribution of processed milk.
- 9. Write a short note on milk proteins and carbohydrates of milk.
- 10. what are the specifications related to packaging of milk and milk products. Explain in brief.
- 11. Note on Organisational structure of a dairy plant.
- 12. Write the factors responsible for selecting site in a dairy management.
- 13. Give classification of dairy plants.
- 14. What do you understand by gestational period.
- 15. What protective measures should be taken to cope up with cold in case of calf.
- 16. What is the importance of milk analysers.
- 17. Define colostrum. Write in brief about the importance of colostrum for calf.
- 18. Enumerate the factors responsible for milk looses
- 19.Define: a. Milk solids b. Milk shed c. Dairy
- 20. What is the significance of developed acidity in milk.

## Long Answer type (10)

- 1. Describe planning and principles of dairy plant layout in detail.
- 2. Describe and explain about the major equipment used in Dairy processing.
- 3. Explain about Milk, Milk products and By-products in detail.
- 4. Describe about compositional and nutritional properties of milk in detail.
- 5. What are different methods of Pasteurization and sterilization. Explain in detail.
- 6. What do you understand by plant layout? Write the objectives of good layout of dairy.
- 7. Define management. What is importance good management of dairy animal
- 8. What is the importance of housing dairy cattle?
- 9. Give a detailed classification of Indian goat breeds.
- 10. Define milk losses. What are the measures predominantly adopted to control milk losses

### Mcq Answers

1. C2. B	3. A	4. A	5. C	6. C	7. D				
8. C9. C	10. B	11. D 12. B	13. A	14. D					
15. B16. E	3 17. B 18. C	19. C 2	20. D	21. C					
22. D 23. D 24. D 25. C 26. A 27. B 28. A									
29. B30. 0	31. C 3	32. D	33. B 34. A	35. C					
36. A37. E	38. D	39. D	40. C 41. A	42. [	)				
43. C 44.	D 45. C	46. A	47. A 48. A	49. A					
50. A51. A	A 52. A	53. D	54. C	55. C	56. D				
57. A58. A	A 59. A 60. B	61. B	62. D	63. A					
64. D 65.	D 66. B	67. D	68. C	69. C 70.	D				