Nan	me:	Chapte	er:
	ructions: Record your answers in the "Exam" section or tion. Each question is worth 3 points. Total points possible		
] } I	Accelerated milk replaced should contain what percent fat? A. 5 to 10 B. 15 to 25 C. 30 to 40 D. 50 to 60		It is recommended that calf starter contain what percent crude protein? A. 6 to 8 B. 10 to 14 C. 18 to 22 D. 30 to 32
H	What is the practice of treating every quarter of every cow with an antibiotic at drying off called? A. Biosecurity B. Blanket dry cow therapy C. Dry period D. Selective dry cow therapy		Milk should be kept under what temperature to maintain the best quality? A. 0°F B. 32°F C. 40°F D. 50°F
I 4.	What is the name of the contagious disease that is caused by a fungus and can be easily spread to other animals? A. Coccidiosis B. Pneumonia C. Ringworm D. Scours What is green forage that is chopped and put into a storage structure, where it is packed or compressed to exclude air and undergoes an acid fermentation called?	10.	U.S. dairy farmers produced 226.3 pounds of milk in 2021. A. Billion B. Million C. Thousand D. Trillion How much does a bushel of soybeans weigh? A. 23 B. 48 C. 56
I () I ()	A. Baleage B. Green chop C. Pasture D. Silage Poloxolene may be given to prevent or correct what condition in cattle? A. Bloat	11.	D. 60 Off-flavors in milk are found most commonly in which component? A. Fat B. Lactose C. Minerals D. Protein What form is given for management practices that
6. 16. 16. 16. 16. 16. 16. 16. 16. 16. 1	B. Displaced abomasum C. Ketosis D. Milk fever In nutrient management planning, an animal unit consists of how many pounds of live weight of any animal? A. 100 B. 500 C. 1,000 D. 1,500		What term is given for management practices that protect the herd from the entry of new diseases and minimize the spread of and/or adverse effects of diseases in the herd? A. Biosecurity B. Preventative herd health C. Veterinary medicine D. Zoonoses

- 13. Grade A raw milk must be cooled to 45°F or less within how many hours after milking?
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- 20. According to the PDCA Dairy Cow Unified Scorecard, what is the mature bodyweight of a Jersey cow?
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 - A. Excellent
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27.	What is the recommended temperature for washing the bulk tanks, lines, and other	34. What is milk called as it comes from the cow prior to processing?
	equipment?	A. Foremilk
	A. 140°F	B. Grade A milk
	B. 160°F	C. Raw milk
	C. 180°F	D. Residual milk
	D. 212°F	35. In what year was the genetic base for dairy cattle
	What is generally considered the best material for	genetic evaluations most recently updated?
	covering a bunker silo?	A. 2015
	A. Plastic	B. 2020
	B. Sand	C. 2021
	C. Sawdust	D. 2023
	D. Straw The recommended feeding rate for bunker silos is at least inches per day.	36. The National Organic Program for organic livestock production requires that cows have at least how many days on pasture during the
	A. 2	grazing season?
	B. 4	A. 90
	C. 6	B. 120
	D. 8	C. 150
	What is the recommended theoretical length of	D. 180
	cut for corn silage harvested with a harvester fitted with a kernel processor? A. ½ inch	37. What disorder occurs most often in adult cows that are milking heavily and grazing lush green pastures?
	B. ½ inch	A. Blackleg
	C. 3/4 inch	B. Grass tetany
		C. Ketosis
	D. 1 inch	D. Milk fever
	What is the term used for the days from calving until conception or successful breeding date?	38. How much time is required for composting dead calves and cows?
	A. Days open	A. 2-6 months
	B. Days to first service	B. 1 year
	C. Gestation	C. 18 months
	D. Voluntary waiting period	D. 2 years
	How many points are assigned to frame on the PDCA Dairy Cow Unified Scorecard?	39. What type of mastitis is characterized by sudden
	A. 15	onset, redness, swelling, hardness, pain, grossly
	B. 20	abnormal milk, and reduced milk yield?
	C. 25	A. Acute
	D. 40	B. Chronic
		C. Clinical
<i>აა</i> .	What term is defined as the condition in which animals express good health, are able to effectively	D. Subclinical
	cope with their environment, and are able to express a diversity of species-typical behaviors?	40. What tool allows manure to be applied according to crop needs rather than on a daily basis?
	A. Animal rights	A. Forage testing
	B. Animal well-being	B. Manure storage
	C. Animal welfare	C. Manure testing
	D. Biosecurity	D. Ration balancing

For questions	41-50, use the cow information provided
for the exam.	The last test day was July 2, 2023.

41.	How many po	unds of milk	has cow	18 produced
	so far this lact	ation?		

- A. 60
- B. 21,382
- C. 24,108
- D. 28,511

42. What was cow 26's milk fat percent on test day?

- A. 3.2
- B. 3.5
- C. 4.8
- D 49

43. Which cow produced the most milk on test day?

- A. 6
- B. 11
- C. 22
- D. 25

44. How many first lactation cows were in milk on test day?

- A. 2
- B. 9
- C. 10
- D. 11

45. How many cows have been designated as "do not breed?"

- A. 0
- B. 1
- C. 14
- D. 15

46. Which cow has the best Estimated Relative Producing Ability (ERPA) for milk?

- A. 11
- B. 13
- C. 22
- D 38

47. Which cow had the worst somatic cell score on the current test day?

- A. 4
- B. 14
- C. 39
- D. 40

48. How many cows are due to calve in August?

- A. 0
- B. 2
- C. 3
- D. 5

49. What percent of the 40 cows in the herd have an "E" lactation rating?

- A. 2
- B. 4
- C. 5
- D. 10

50. How many cows are open more than 100 days without a breeding and have not been designated "do not breed?"

- A. 0
- B. 1
- C. 6
- D. 15

2023 Virginia FFA Dairy Cattle Evaluation and Management CDE Written Exam: Cow Information for Questions 41-50

Cow			Lact	S	Status	Age			Test mo	onth		Prev.	Lactation to Date			ME	ERPA	No.	Repro	Last	Date	Days	Days			
ID	Breed	Sire ID	No.	Code	Date	(mo.)	DIM	Milk	Fat%	Pro%	scs	scs	Milk	Fat%	Pro%	Fat	Pro	Rating	Milk	Milk	Breedings	Code	Bred	Due		Open
1	НО	SHANDRO	7	2	12/10/22	107	230	88	5.0	3.4	2.2	1.9	19643	4.6	3.2	904	628	С	26239	95	3		05/21	02/25		162
2	НО	GABOR	7	2	09/04/22	105	327	80	3.6	3.2	4.9	4.8	25167	3.6	3.0	909	754	D	26670	-1153	3	Р	01/14	10/21		132
3	НО	PLANET	6	3	06/15/23	105	307					1.3	25726	4.5	3.3	1145	860	В	27399	-941	1	Р	11/07	08/14	43	87
4	НО	DASHAWN	6	2	09/22/22	104	309	62	4.3	3.3	5.8	7.6	23472	4.2	3.2	997	750	С	25899	-859	1	Р	12/23	09/29		92
5	НО	AL	6	2	10/14/22	104	287	82	4.0	3.1	0.8	1.5	23381	4.2	3.0	988	710	С	27054	-228	2	Р	03/01	12/06		138
6	НО	DASHAWN	5	2	04/24/22	95	460	14	3.7	3.9	5.7	5.8	41350	3.9	3.0	1628	1231	В	32133	2506	4	Р	11/26	09/02		216
7	НО	BOOKEM	5	2	09/01/22	92	330	70	4.7	3.6	2.5	3.1	30270	4.4	3.2	1331	982	Α	31481	1705	2	Р	01/27	11/03		148
8	НО	GAMBLER	5	2	12/08/22	86	232	104	3.1	3.0	3.7	4.0	22055	3.6	2.9	788	641	С	29207	96	2	Р	04/20	01/25		133
9	НО	MOGUL	5	2	07/19/22	83	374	48	4.3	3.2	2.0	1.6	30538	3.9	3.0	1199	924	В	29385	1535	1	Р	11/25	09/01		129
10	НО	GUMP	5	2	07/01/23	82	27													-268						27
11	НО	AUTOPILOT	5	2	01/25/23	81	184	142	1.9	2.5	0.1	0.1	20685	2.9	2.7	599	560	С	34369	4031	1	Р	04/05	01/10		70
12	НО	GOLD CHIP	5	2	11/16/22	81	254	96	4.0	3.2	0.1	0.1	22317	4.2	3.2	947	707	С	28173	416	2		06/07	03/13		203
13	НО	MOGUL	5	2	12/06/22	80	234	112	3.8	2.6	0.1	0.1	25590	3.8	2.8	981	708	Α	33144	2746	1	Р	02/23	11/30		79
14	НО	GOLD CHIP	4	2	10/06/22	73	295	68	3.8	3.3	8.2	7.2	19250	3.8	3.3	739	634	Е	21803	233		С				295
15	НО	GWATWOOD	4	2	11/17/22	69	253	72	5.4	3.6	1.1	0.1	19945	5.2	3.4	1037	670	С	24509	-1778	1	Р	01/23	10/30		67
16	НО	BOB	3	3	05/30/23	67	326						29723	4.1	3.4	1215	1015	Α	30528	352	1	Р	10/21	07/28	59	105
17	НО	KELFORD	3	2	11/19/22	62	251	110	3.9	3.3	0.1	0.1	20648	4.3	3.3	885	676	В	28528	2217	2	Р	02/28	12/05		101
18	НО	BOB	3	2	10/21/22	57	280	60	5.6	3.2	2.5	1.7	24108	4.6	3.2	1111	768	В	28511	-1473	1	Р	12/14	09/20		54
19	НО	MCCUTCHEN	3	2	11/20/22	57	250	84	3.8	3.0	1.5	1.9	21382	3.6	2.8	760	600	D	28022	360	1	Р	02/09	11/16		81
20	НО	MONTROSS	3	2	10/31/22	56	270	82	4.4	3.4	5.1	4.8	22165	4.4	3.3	974	725	В	28506	-37	1	Р	12/31	10/07		61
21	НО	SATCHEL	3	2	04/09/23	56	110	106	4.0	2.4	0.1	0.1	10405	3.8	2.6	393	267	С	27079	1830	1		06/15	03/21		67
22	НО	DRAGONHRT	3	2	11/01/22	56	269	90	2.7	3.2	3.9	4.0	28587	2.7	3.0	781	869	В	34999	4609	1	Р	01/11	10/18		71
23	НО	NICHOLAS	2	3	05/31/23	49	377						27639	3.5	3.3	976	918	С	28821	-240	3	Р	10/21	07/28	58	155
24	НО	DRAGONHRT	2	2	12/23/22	45	217	100	3.3	3.0	1.8	2.0	21767	3.6	2.8	793	619	В	33457	2625	3		05/12	02/16		140
25	НО	DRAGONHRT	2	2	02/14/23	44	164	130	3.6	2.9	0.1	1.0	14210	3.8	2.9	538	413	В	32038	2201	1	Р	04/24	01/29		69
26	НО	BEEMER	2	2	10/23/22	44	278	74	4.9	3.5	0.1	0.1	19136	4.8	3.2	916	617	С	26601	-2344	4		05/16	02/20		205
27	НО	HARVARD	2	2	03/15/23	42	135	108	3.8	2.9	0.1	0.9	11148	4.4	2.8	489	311	В	28628	1125	2		06/14	03/20		91
28	НО	KINGBOY	2	2	05/10/23	37	79	112	3.0	2.2	0.1	0.1	6136	3.5	2.7	213	164	С	30936	2077						79
29	НО	STUNNER	2	2	05/16/23	37	73	98	4.1	3.1	0.2	1.1	4433	4.5	3.3	199	145	С	27398	-605						73
30	НО	MOGUL	1	3	06/26/23	34	296					2.6	20718	3.9	3.1	801	652	С	28341	-354	1	Р	11/17	08/24	32	75
31	НО	YODER	1	6	09/04/22	34	327	60	4.8	3.7	3.8	2.7	20604	4.4	3.5	903	718	В	27639	-709	1	Р	11/23	08/30		80
32	НО	DRAGONHRT	1	3	05/30/23	34	281						21982	4.1	3.2	898	704	Α	32289	1525	1	Р	10/20	07/27	59	59
33	НО	MORGAN	1	6	10/13/22	34	288	74	4.5	3.7	0.1	0.3	20053	4.4	3.3	884	659	В	29507	288	1	Р	12/29	10/05		77
34	НО	BOB	1	6	12/12/22	33	228	100	3.5	3.4	4.4	4.1	17386	3.7	3.2	649	563	В	31272	1516	1	Р	03/03	12/08		81
35	НО	MORGAN	1	6	11/08/22	33	262	78	3.7	3.2	4.0	3.7	16298	3.6	3.2	586	518	D	26124	-990	2	Р	01/28	11/04		81
36	НО	KINGBOY	1	6	10/25/22	33	276	94	3.5	2.8	0.1	0.1	21527	3.6	2.8	769	607	В	34149	2591	4	Р	05/02	02/06		189
37	НО	FIRED-UP	1	6	02/05/23	29	173	78	2.7	2.9	5.3	1.4	12337	3.5	2.7	433	337	D	28535	410	1	Р	04/21	01/26		75
38	НО	MONTROSS	1	6	05/08/23	27	81	48	4.8	2.8	4.5	3.1	3715	4.7	3.1	176	117	E	19057	-3465		Н	06/16			81
39	НО	DRAGONHRT	1	6	05/07/23	26	82	100	3.0	3.0	3.2	8.2	4603	3.2	3.0	148	137	С	30372	1448						82
40	НО	FRAZZLED	1	6	06/08/23	25	50	88	3.7	2.8	6.6		1810	4.1	3.1	74	57									50

Repro Codes
C. Do not breed
N. Open
P. Diagnosed pregnant

3. Dry

Status Codes 1. In milk 5. Left herd 2. Calved

7. Entered herd

8. Aborted 6. First lactation 9. Induced lactation

Rating Codes
A. Top cows
B. Above average
C. Below average

D. Marginal cows E. Bottom cows

Date of Test: 07/02/2023

Reference Date: 07/27/2023



N	Tame:	Chap	ter:
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equipment? A. 140°F B. 160°F * C. 180°F D. 212°F 28. What is generally considered the best material for covering a bunker silo? A. Plastic * B. Sand C. Sawdust D. Straw 29. The recommended feeding rate for bunker silos is at least inches per day. A. 2 B. 4 C. 6 * D. 8 30. What is the recommended theoretical length of cut for corn silage harvested with a harvester fitted with a kernel processor? A. ½ inch D. 1 inch B. ½ inch C. ½ inch * D. 1 inch B. ½ inch D. 1 inch B. ½ inch D. 1 inch B. ½ inch C. ½ inch * D. 2 years 27. What disorder occurs most often in adult cows that are milking heavily and grazing lush green pastures? A. Blackleg B. Grass tetany * C. Ketosis D. Milk fever 28. How many points are assigned to frame on the PDCA Dairy Cow Unified Scorecard? A. 15 * B. 20 c C. 25 c D. 40 29. What type of mastitis is characterized by sudden onset, redness, swelling, hardness, pain, grossly abnormal milk, and reduced milk yield? A. Acute * B. Chronic C. Clinical D. Subclinical What tool allows manure to be applied according to crop needs rather than on a daily basis? A. Forage testing B. Manure storage * C. Manure testing	27.	What is the recommended temperature for washing the bulk tanks, lines, and other	34. What is milk called as it comes from the cow prior to processing?						
B. 160°F * C. 180°F D. 212°F D. 212°F D. 212°F D. 212°F S. What is generally considered the best material for covering a bunker silo? A. Plastic * B. Sand C. Sawdust D. Straw J. The recommended feeding rate for bunker silos is at least inches per day. A. 2 B. 4 C. 6 * D. 8 J. What is the recommended theoretical length of cut for corn silage harvested with a harvester fitted with a kernel processor? A. ½ inch B. ½ inch C. ¼ inch * D. 1 inch J. What is the term used for the days from calving until conception or successful breeding date? A. Days open * B. Days to first service C. Gestation D. Voluntary waiting period J. How many points are assigned to frame on the PDCA Dairy Cow Unified Scorecard? A. 15 * B. 20 C. 25 D. 40 J. What term is defined as the condition in which animals express good health, are able to express a diversity of species-typical behaviors? A. Animal well-being * D. Residual milk 5. In what year was the genetic base for dairy cattle genetic evaluations most recently updated? A. 2015 B. 2020 * C. 2021 D. 2023 J. The National Organic Program for organic livestock production requires that cows have at least how many days on pasture during the grazing season? A. 90 B. 120 * C. 150 D. 180 J. What disorder occurs most often in adult cows that are milking heavily and grazing lush green pastures? A. Blackleg B. Grass tetany * C. Ketosis D. Milk fever J. How much time is required for composting dead calves and cows? A. 2 - momths * B. 1 year C. 18 months D. 2 years J. What type of mastitis is characterized by sudden onset, redness, swelling, hardness, pain, grossly abnormal milk, and reduced milk yield? A. Acute * B. Chronic C. Climical D. Subclinical U. What tool allows manure to be applied according to crop needs rather than on a daily basis? A. Forage testing B. Manure storage *			A. Foremilk						
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C. Primitive testing		_	•						
D. Biosecurity D. Ration balancing									

For questions	41-50, use the cow information prov	vided
for the exam.	The last test day was July 2, 2023.	

41.	How many pounds of	milk has	cow 18	produced
	so far this lactation?			

- A. 60
- B. 21,382
- C. 24,108 *
- D. 28,511

42. What was cow 26's milk fat percent on test day?

- A. 3.2
- B. 3.5
- C. 4.8
- D. 4.9 *

43. Which cow produced the most milk on test day?

- A 6
- B. 11 *
- C. 22
- D. 25

44. How many first lactation cows were in milk on test day?

- A. 2
- B. 9*
- C. 10
- D. 11

45. How many cows have been designated as "do not breed?"

- A. 0
- B. 1*
- C. 14
- D. 15

46. Which cow has the best Estimated Relative Producing Ability (ERPA) for milk?

- A. 11
- B. 13
- C. 22 *
- D 38

47. Which cow had the worst somatic cell score on the current test day?

- A. 4
- B. 14*
- C. 39
- D. 40

48. How many cows are due to calve in August?

- A. 0
- B. 2
- C. 3 *
- D. 5

49. What percent of the 40 cows in the herd have an "E" lactation rating?

- A. 2
- B. 4
- C. 5 *
- D. 10
- 50. How many cows are open more than 100 days without a breeding and have not been designated "do not breed?"
 - A. 0 *
 - B. 1
 - C. 6
 - D. 15