

# 2023 Virginia FFA Dairy Cattle Evaluation and Management CDE Written Exam

Name: \_\_\_\_\_ Chapter: \_\_\_\_\_

**Instructions:** Record your answers in the “Exam” section on your Scantron form. Select the single best answer for each question. Each question is worth 3 points. Total points possible = 150. The time limit is 30 minutes.

1. Accelerated milk replacer should contain what percent fat?
  - A. 5 to 10
  - B. 15 to 25
  - C. 30 to 40
  - D. 50 to 60
2. 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
3. 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
4. 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?
  - A. Baleage
  - B. Green chop
  - C. Pasture
  - D. Silage
5. Poloxolene may be given to prevent or correct what condition in cattle?
  - A. Bloat
  - B. Displaced abomasum
  - C. Ketosis
  - D. Milk fever
6. 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
7. 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
8. Milk should be kept under what temperature to maintain the best quality?
  - A. 0°F
  - B. 32°F
  - C. 40°F
  - D. 50°F
9. U.S. dairy farmers produced 226.3 \_\_\_ pounds of milk in 2021.
  - A. Billion
  - B. Million
  - C. Thousand
  - D. Trillion
10. How much does a bushel of soybeans weigh?
  - A. 23
  - B. 48
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11. Off-flavors in milk are found most commonly in which component?
  - A. Fat
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- A. 1684
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29. The recommended feeding rate for bunker silos is at least \_\_\_ inches per day.
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30. What is the recommended theoretical length of cut for corn silage harvested with a harvester fitted with a kernel processor?
- A.  $\frac{1}{4}$  inch
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31. 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
32. How many points are assigned to frame on the PDCA Dairy Cow Unified Scorecard?
- A. 15
  - B. 20
  - C. 25
  - D. 40
33. What term is defined as the condition in which animals express good health, are able to effectively cope with their environment, and are able to express a diversity of species-typical behaviors?
- A. Animal rights
  - B. Animal well-being
  - C. Animal welfare
  - D. Biosecurity
34. What is milk called as it comes from the cow prior to processing?
- A. Foremilk
  - B. Grade A milk
  - C. Raw milk
  - D. Residual milk
35. In what year was the genetic base for dairy cattle genetic evaluations most recently updated?
- A. 2015
  - B. 2020
  - C. 2021
  - D. 2023
36. 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
37. 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
38. How much time is required for composting dead calves and cows?
- A. 2-6 months
  - B. 1 year
  - C. 18 months
  - D. 2 years
39. 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
40. 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
  - D. Ration balancing

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

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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

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

Date of Test: 07/02/2023  
 Reference Date: 07/27/2023

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

Status Codes  
 1. In milk  
 2. Calved  
 3. Dry  
 5. Left herd  
 6. First lactation  
 7. Entered herd  
 8. Aborted  
 9. Induced lactation

Rating Codes  
 A. Top cows  
 B. Above average  
 C. Below average  
 D. Marginal cows  
 E. Bottom cows

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  - C. 25
  - D. 40
33. What term is defined as the condition in which animals express good health, are able to effectively cope with their environment, and are able to express a diversity of species-typical behaviors?
- A. Animal rights
  - B. Animal well-being \*
  - C. Animal welfare
  - D. Biosecurity
34. What is milk called as it comes from the cow prior to processing?
- A. Foremilk
  - B. Grade A milk
  - C. Raw milk \*
  - D. Residual milk
35. In what year was the genetic base for dairy cattle genetic evaluations most recently updated?
- A. 2015
  - B. 2020 \*
  - C. 2021
  - D. 2023
36. 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
37. 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
38. How much time is required for composting dead calves and cows?
- A. 2-6 months \*
  - B. 1 year
  - C. 18 months
  - D. 2 years
39. 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
40. 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
  - D. Ration balancing



# 2023 Virginia FFA Dairy Cattle Evaluation and Management CDE Written Exam

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

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**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