

**2016 Virginia FFA Dairy Cattle Evaluation and Management Career Development Event
Written Exam**

Name: _____ FFA Chapter: _____

Instructions: Record your answers in the "Written Exam" section on the back of 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. Who developed the butterfat test that was the basis for DHIA testing?**
 - (A) Corey Geiger
 - (B) Gail Borden
 - (C) Jay Mattison
 - (D) S. M. Babcock
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- 2. What is the largest dairy cooperative in the United States?**
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 - (E) None of the above
- 3. Where is the headquarters of the Dairy Calf and Heifer Association located?**
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- 4. Which dairy breed was the first to arrive in the United States?**
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- 5. Holsteins make up approximately what percent of the U.S. dairy cow population?**
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- 27. What type of mastitis is characterized by visible abnormalities in the udder or milk?**
(A) Acute
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- 28. What is the legal limit for bacteria counts in raw milk?**
(A) 10,000 cfu/ml
(B) 100,000 cfu/ml
(C) 200,000 cfu/ml
(D) 750,000 cfu/ml
(E) 1,000,000 cfu/ml
- 29. What state ranks first for total milk production?**
(A) California
(B) Idaho
(C) New Mexico
(D) New York
(E) Wisconsin
- 30. What is the standard length of a DHIA record?**
(A) 60 days
(B) 150 days
(C) 250 days
(D) 305 days
(E) 365 days
- 31. For what reason may a DHIA record be terminated?**
(A) Aborted
(B) Died
(C) Dried off
(D) All of the above
(E) None of the above
- 32. What is the most reliable sign of estrus in dairy cattle?**
(A) Bellowing
(B) Following and smelling another cow
(C) Mounting other cows
(D) Restlessness
(E) Standing to be mounted
- 33. What percent of heifers born twin to a bull are sterile?**
(A) 0
(B) 10
(C) 80
(D) 90
(E) 100
- 34. What calving ease score would be assigned for a calving that required considerable force?**
(A) 1
(B) 2
(C) 3
(D) 4
(E) 5

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35. What is the normal temperature for a calf?

- (A) 95.0
- (B) 98.6
- (C) 101.5
- (D) 102.5
- (E) 105.1

36. Which of the following diseases is classified as an infectious disease?

- (A) Ketosis
- (B) Laminitis
- (C) Milk fever
- (D) All of the above
- (E) None of the above

37. What are diseases that are transmitted between vertebrate animals and human beings called?

- (A) Biosecurity
- (B) Infectious diseases
- (C) Outbreaks
- (D) Viruses
- (E) Zoonoses

38. What is the common name for parturient paresis?

- (A) Bang's disease
- (B) Circling disease
- (C) Hardware disease
- (D) Ketosis
- (E) Milk fever

39. The milk ring test is used to detect what disease in cattle?

- (A) Brucellosis
- (B) Foot rot
- (C) Ketosis
- (D) Milk fever
- (E) Pneumonia

40. What is often given to cattle to prevent hardware disease?

- (A) Calcium
- (B) Magnet
- (C) Niacin
- (D) Trocar
- (E) None of the above

For questions 41-50, use the cow information provided for the exam.

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

- (A) 3
- (B) 7
- (C) 8
- (D) 15
- (E) 16

42. How many cows had a somatic cell score greater than 6.0 on this test month?

- (A) 0
- (B) 1
- (C) 2
- (D) 3
- (E) 4

43. Which cow has produced the most milk during her lactation to date?

- (A) 4578
- (B) 4888
- (C) 5051
- (D) 5065
- (E) 5136

44. How many times has 5079 been bred?

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- (E) 6

45. What was the length of 4988's dry period?

- (A) 46 days
- (B) 66 days
- (C) 67 days
- (D) 106 days
- (E) 121 days

46. If this herd keeps fresh cows in a transition group for the first 3 weeks after calving, how many cows would be in the group today?

- (A) 0
- (B) 1
- (C) 2
- (D) 3
- (E) 4

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47. What was the reason for 5051's status change on June 6?

- (A) Aborted
- (B) Calved
- (C) Left herd
- (D) Turned dry
- (E) None of the above

48. What is the lactation number for 5039?

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- (E) 5

49. How many cows in the herd are rated as bottom cows?

- (A) 1
- (B) 6
- (C) 7
- (D) 8
- (E) 18

50. Which cow had the highest fat test this test month?

- (A) 5001
- (B) 5136
- (C) 5203
- (D) 5205
- (E) 5279

2016 Virginia FFA Dairy Cattle Evaluation Management CDE

Written Exam: Cow Information for Questions 41-50

Index	Breed	Sire ID	Status		Lact No.	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
4578	JE	ALMIGHTY	2	07/21/15	5	76	301	58.0	4.4	3.6	3.6	2.9	23896	4.5	3.2	1073	776	A	25557	89		C			60	332
4762	JE	RESTORE	2	07/23/15	4	62	299	61.4	6.3	2.9	0.7	0.9	19490	4.3	3.2	844	619	B	21219	7	6	P	02/26/16	12/01	70	218
4799	JE	FANTOM	2	11/14/15	4	62	185	86.6	4.6	3.6	3.4	3.7	18565	4.1	3.2	766	597	A	27580	3606	1	P	02/19/16	11/24	56	97
4842	JE	JACE	2	12/13/15	4	59	156	79.2	4.0	3.2	3.6	4.1	12381	4.8	3.1	592	382	C	20934	629	1	P	02/17/16	11/22	57	66
4888	JE	SICILY	2	08/01/15	3	51	290	41.7	5.8	3.9	3.8	3.9	21375	4.7	3.3	1005	709	A	24800	1387		C			63	321
4935	JE	MATINEE	2	12/05/15	3	50	164	81.1	5.1	3.8	2.4	2.3	14350	4.5	3.4	647	481	A	23401	-166		C			63	195
4962	JE	ZUMA	2	11/11/15	3	47	188	56.9	4.8	3.7	3.6	3.3	13807	4.1	3.3	566	459	C	20561	-1772	1	P	02/05/16	11/10	66	86
4988	JE	HENDRIX	2	02/01/16	3	46	106	103.2	4.1	3.4	1.3	1.8	9906	5	3.2	495	314	A	25215	1607	1	P	04/08/16	01/12	121	67
5001	JE	HENDRIX	2	04/03/16	3	47	44	86.6	5.1	3.0	0.9	1.7	3246	5.8	3.1	187	100	B	20492	-814	1		06/10/16	03/16	68	68
5010	JE	KANOO	2	03/11/16	3	46	67	98.7	3.9	3.2	0.1	0.1	6019	4.7	3.3	280	198	B	22238	1792	1		05/20/16	02/23	74	70
5033	JE	KANOO	2	11/28/15	2	40	171	80.9	5.2	3.2	5.1	4.7	14735	4.6	3.2	685	474	A	26048	884	1	P	01/29/16	11/03	70	62
5039	JE	LEGAL	2	05/25/16	3	45	327													1443					52	23
5051	JE	ZUMA	3	06/06/16	2	32	381	45.0	6.5	4.0	2.7	3.6	25375	5.1	3.5	1289	886	A	24865	2461	3	P	10/23/15	07/28	56	174
5065	JE	DOMINICAN	2	07/23/15	2	33	299	55.7	5.3	4.0	3.9	2.9	22295	4.5	3.4	996	762	A	27599	2579		C			54	330
5069	JE	CHARNESA	2	01/20/16	2	39	118	83.2	5.7	3.5	0.1	0.1	9625	5.2	3.5	502	340	A	22768	2069	2		05/19/16	02/22	67	120
5071	JE	CHARNESA	2	11/24/15	2	37	175	73.7	4.7	3.9	2.6	2.6	15182	4.6	3.5	703	537	A	26135	3037	3	P	04/29/16	02/02	79	157
5079	JE	HEADLINE	2	10/22/15	2	35	208	63.0	4.4	3.8	2.2	2.1	14393	4.2	3.5	604	499	A	23891	-514	4	P	05/13/16	02/16	103	204
5094	JE	DOMINICAN	2	10/15/15	2	34	215	45.2	4.6	3.9	6.2	6.0	12592	4.5	3.6	569	448	C	19686	-1299	2	P	02/26/16	12/01	54	134
5101	JE	CHARNESA	2	11/25/15	2	34	174	59.6	6.0	4.0	5.5	5.1	11988	5.5	3.5	657	415	A	21766	-685	1	P	02/19/16	11/24	137	86
5107	JE	CHARNESA	2	10/04/15	2	32	226	58.1	6.1	3.7	4.2	3.6	13887	5.4	3.5	748	487	A	22192	-165	1	P	12/25/15	09/29	58	82
5136	JE	CHARNESA	6	03/14/15	1	23	430	51.3	5.6	4.3	2.4	2.6	26837	5	3.7	1341	1004	A	24871	2156		C				461
5145	JE	MACHETE	2	04/08/16	2	35	39	72.0	4.4	3.3	0.2	2.0	2215	4.6	3.7	101	81	C	19996	51					59	70
5150	JE	CHARNESA	2	04/11/16	2	35	36	69.3	4.9	3.6	3.0	4.1	2263	4.7	3.8	106	85	B	20039	-2111					121	67
5164	JE	MACHETE	3	05/14/16	1	24	344					1.4	17951	5.2	3.5	925	631	A	21128	-662	2	P	10/08/15	07/13		125
5177	JE	LEGAL	2	04/15/16	2	34	32	85.9	5.2	2.9	1.2		2422	5.7	3.2	139	78			-981					47	63
5182	JE	HENDRIX	6	06/09/15	1	23	343	53.1	5.5	4.0	1.8	0.1	20219	4.9	3.6	993	727	A	23941	812		C				374
5188	JE	MACHETE	2	05/29/16	2	34	304													294					56	19
5203	JE	WHISPER	3	06/06/16	1	21	349	41.0	6.6	4.2	3.1	3.4	17400	5	3.9	866	672	A	21356	-543	2	P	10/23/15	07/28		142
5205	JE	DIGNITARY	6	10/05/15	1	25	225	62.9	5.0	4.2	2.5	2.2	15203	4.8	3.5	728	536	A	25683	1505		C				256
5207	JE	CHARNESA	6	09/20/15	1	24	240	48.2	5.2	3.6	2.1	1.6	13214	4.6	3.3	602	430	B	22154	-440	1	P	11/19/15	08/24		60
5214	JE	DIGNITARY	6	09/03/15	1	24	257	39.7	5.8	4.2	2.4	2.4	13092	5.1	3.7	674	484	B	20486	-1312		C				288
5216	JE	DIGNITARY	3	06/06/16	1	22	294	41.0	6.5	4.4	0.4	0.1	16222	5.5	3.7	897	593	A	23148	-279	1	P	10/23/15	07/28		87
5234	JE	MADDEN	6	11/27/15	1	23	172	56.6	5.4	3.9	3.1	2.1	10637	4.9	3.5	523	375	A	21975	-131	1	P	01/29/16	11/03		63
5235	JE	MADDEN	6	12/10/15	1	24	159	54.5	6.2	4.3	2.0		7936	5.5	3.9	433	310	C	17608	-2108	1	P	03/04/16	12/08		85
5245	JE	TOPEKA	6	10/28/15	1	21	202	58.6	4.5	3.3	1.4	1.7	11579	4.5	3	520	351	A	23770	533	1	P	01/22/16	10/27		86
5272	JE	TOPEKA	6	04/23/16	1	24	24	59.8	4.6	3.2	3.0		1174	5.1	3.6	60	42									55
5279	JE	TOPEKA	6	03/09/16	1	22	69	38.0	3.9	3.0	2.4	1.7	3124	4.2	3.1	131	96	E	15370	-2064	1		05/20/16	02/23		72
5283	JE	TOPEKA	6	03/05/16	1	22	73	65.7	5.2	3.4	2.6	4.8	4035	5.1	3.3	205	135	B	20951	390	2		06/02/16	03/08		89
5292	JE	MADDEN	6	02/26/16	1	21	81	51.0	4.3	3.2		0.5	3990	4.4	3.4	174	134	C	19523	-258	1	P	05/06/16	02/09		70
5309	JE	DAZZLER	6	05/08/16	1	22	9																			40

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

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

Rating Codes
 A. Top Cows D. Marginal Cows
 B. Above Average E. Bottom Cows
 C. Below Average

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(D) Subclinical
(E) None of the above
- 28. What is the legal limit for bacteria counts in raw milk?**
(A) 10,000 cfu/ml
(B) 100,000 cfu/ml
(C) 200,000 cfu/ml
(D) 750,000 cfu/ml
(E) 1,000,000 cfu/ml
- 29. What state ranks first for total milk production?**
(A) California
(B) Idaho
(C) New Mexico
(D) New York
(E) Wisconsin
- 30. What is the standard length of a DHIA record?**
(A) 60 days
(B) 150 days
(C) 250 days
(D) 305 days
(E) 365 days
- 31. For what reason may a DHIA record be terminated?**
(A) Aborted
(B) Died
(C) Dried off
(D) All of the above
(E) None of the above
- 32. What is the most reliable sign of estrus in dairy cattle?**
(A) Bellowing
(B) Following and smelling another cow
(C) Mounting other cows
(D) Restlessness
(E) Standing to be mounted
- 33. What percent of heifers born twin to a bull are sterile?**
(A) 0
(B) 10
(C) 80
(D) 90
(E) 100
- 34. What calving ease score would be assigned for a calving that required considerable force?**
(A) 1
(B) 2
(C) 3
(D) 4
(E) 5

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35. What is the normal temperature for a calf?

- (A) 95.0
- (B) 98.6
- (C) 101.5
- (D) 102.5**
- (E) 105.1

36. Which of the following diseases is classified as an infectious disease?

- (A) Ketosis
- (B) Laminitis
- (C) Milk fever
- (D) All of the above
- (E) None of the above**

37. What are diseases that are transmitted between vertebrate animals and human beings called?

- (A) Biosecurity
- (B) Infectious diseases
- (C) Outbreaks
- (D) Viruses
- (E) Zoonoses**

38. What is the common name for parturient paresis?

- (A) Bang's disease
- (B) Circling disease
- (C) Hardware disease
- (D) Ketosis
- (E) Milk fever**

39. The milk ring test is used to detect what disease in cattle?

- (A) Brucellosis**
- (B) Foot rot
- (C) Ketosis
- (D) Milk fever
- (E) Pneumonia

40. What is often given to cattle to prevent hardware disease?

- (A) Calcium
- (B) Magnet**
- (C) Niacin
- (D) Trocar
- (E) None of the above

For questions 41-50, use the cow information provided for the exam.

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

- (A) 3
- (B) 7
- (C) 8**
- (D) 15
- (E) 16

42. How many cows had a somatic cell score greater than 6.0 on this test month?

- (A) 0
- (B) 1**
- (C) 2
- (D) 3
- (E) 4

43. Which cow has produced the most milk during her lactation to date?

- (A) 4578
- (B) 4888
- (C) 5051
- (D) 5065
- (E) 5136**

44. How many times has 5079 been bred?

- (A) 1
- (B) 2
- (C) 3
- (D) 4**
- (E) 6

45. What was the length of 4988's dry period?

- (A) 46 days
- (B) 66 days
- (C) 67 days
- (D) 106 days
- (E) 121 days**

46. If this herd keeps fresh cows in a transition group for the first 3 weeks after calving, how many cows would be in the group today?

- (A) 0
- (B) 1**
- (C) 2
- (D) 3
- (E) 4

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47. What was the reason for 5051's status change on June 6?

- (A) Aborted
- (B) Calved
- (C) Left herd
- (D) Turned dry**
- (E) None of the above

48. What is the lactation number for 5039?

- (A) 1
- (B) 2
- (C) 3**
- (D) 4
- (E) 5

49. How many cows in the herd are rated as bottom cows?

- (A) 1**
- (B) 6
- (C) 7
- (D) 8
- (E) 18

50. Which cow had the highest fat test this test month?

- (A) 5001
- (B) 5136
- (C) 5203**
- (D) 5205
- (E) 5279