

2018 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.

- The first cow testing association was organized in 1905 in what state?
 - Michigan
 - Minnesota
 - New York
 - Pennsylvania
 - Wisconsin
- In what year was Frosty, the first U.S. calf resulting from frozen semen, born?
 - 1895
 - 1917
 - 1953
 - 1965
 - 1973
- Where is the headquarters of National DHIA located?
 - Brattleboro, Vermont
 - Columbus, Ohio
 - Louisville, Kentucky
 - Verona, Wisconsin
 - Visalia, California
- What is the name of the Jersey breed association magazine?
 - Jersey Bulletin
 - Jersey Digest
 - Jersey Journal
 - Jersey Today
 - Jersey World
- Which category does not appear on the Dairy Heifer Scorecard?
 - Body capacity
 - Dairy strength
 - Feet and legs
 - Frame
 - Udder
- How would a Jersey cow with a final score of 84 be classified?
 - Acceptable
 - Desirable
 - Excellent
 - Poor
 - Very good
- Calves should at least double their birth weight by _____ weeks of age.
 - 4
 - 8
 - 12
 - 16
 - 20
- The leading causes of death in young calves are scours and _____.
 - Blackleg
 - Bloat
 - Displaced abomasum
 - Navel joint ill
 - Pneumonia
- A 7% solution of _____ should be painted on a calf's navel soon after birth to seal the entrance from disease causing organisms.
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 - B. Crude protein
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 - D. Rumen undegradable protein
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- A. Calving difficulty
 - B. Ketosis
 - C. Laminitis
 - D. Mad cow disease
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36. What instrument is used to puncture the rumen in cases of bloat?
- A. Balling gun
 - B. Cryoscope
 - C. Elastrator
 - D. IV tube
 - E. Trocar
37. The most common walk-through treatment for foot rot is a 5% solution of _____.
- A. Copper sulfate
 - B. Formaldehyde
 - C. Iodine
 - D. Sodium bicarbonate
 - E. Zinc sulfate
38. What is the most effective management tool to control flies on a dairy farm?
- A. Clipping high grass in pastures
 - B. Fly tags
 - C. Parasitic wasps
 - D. Sanitation
 - E. Vaccination
39. An animal unit consists of how many pounds of live animal weight?
- A. 100
 - B. 250
 - C. 500
 - D. 1,000
 - E. 1,500
40. When using teat dip as a pre-dip, how long should the dip be left on the teat before it is wiped off?
- A. 5 seconds
 - B. 10 seconds
 - C. 30 seconds
 - D. 1 minute
 - E. 2 minutes

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For questions 41-50, use the cow information provided for the exam. The last test day was May 21, 2018.

41. How many second lactation cows are in the herd?

- A. 4
- B. 6
- C. 10
- D. 15
- E. 20

42. How many cows left the herd since the last test day?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

43. How many cows have been labeled "do not breed"?

- A. 3
- B. 4
- C. 5
- D. 6
- E. 7

44. Which cow is due to calve next?

- A. 7
- B. 10
- C. 15
- D. 24
- E. 25

45. How many cows currently have a somatic cell score greater than 6.0?

- A. 2
- B. 4
- C. 5
- D. 7
- E. 9

46. Which cow has the lowest Estimated Relative Producing Ability?

- A. 7
- B. 25
- C. 28
- D. 30
- E. 31

47. Which first lactation cow calved most recently?

- A. 10
- B. 15
- C. 36
- D. 39
- E. 40

48. How many cows have more than 150 days open?

- A. 13
- B. 14
- C. 15
- D. 16
- E. 25

49. How much milk has Cow 5 produced this lactation thus far?

- A. 103.8 pounds
- B. 1,092 pounds
- C. 2,757 pounds
- D. 29,631 pounds
- E. 36,846 pounds

50. Which cow has the highest fat test on the current test day?

- A. 3
- B. 8
- C. 9
- D. 13
- E. 36

Cow ID	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								
1	HO	POMEROY	2	09/08/17	6	93	256	102.2	4.0	3.2	1.4	1.3	29374	3.3	3.1	973	896	B	35550	491	3	P	02/09/18	11/16	61	154
2	HO	HAYDEN	2	04/13/18	6	95	39	131.2	3.0	2.5	7.4		4639	3.3	2.7	153	126			1816					65	62
3	HO	FREDDIE	2	02/13/18	5	74	98	106.1	4.7	3.4	7.3	7.0	11919	4.2	3	502	362	C	26760	-929	1	P	05/04/18	02/08	75	80
4	HO	SUPER	2	03/07/16	3	49	806	58.9	3.4	3.1	2.6	4.9	69075	2.9	3	2030	2078	C	33391	2956		C			86	829
5	HO	LEVI	2	09/15/17	4	65	249	103.8	3.9	3.1	7.1	3.8	29631	3.7	2.9	1092	865	A	36846	2757	2	P	01/12/18	10/19	52	119
6	HO	PLANET	2	04/07/18	5	70	45	150.7	3.0	2.4	3.1	1.3	5440	3.8	2.9	204	157	D	29929	-277					59	68
7	HO	DENIM	3	04/30/18	3	50	293					2.1	30783	3.5	3.2	1086	980	B	35094	-233	1	P	09/22/17	06/29	80	73
8	HO	DENIM	2	06/23/17	3	49	333	60.1	4.7	3.9	4.0	3.7	36113	4.1	3.4	1487	1210	A	37093	-1335		C			121	356
9	HO		2	08/02/17	3	50	293	80.9	4.7	3.6	3.5	2.7	29588	3.7	3.3	1098	981	B	34191	-473		C			52	316
10	HO	PLANET	3	06/05/18	3	50	276	54.0	3.2	3.1	3.2	4.4	31233	3.1	2.9	973	910	B	36592	2857	1	P	10/27/17	08/03	60	69
11	HO	RAINIER	2	01/05/18	3	49	137	107.9	3.3	2.8	0.7	0.7	14056	3.5	2.8	498	393	D	27868	-520	2	N	05/12/18		54	160
12	HO	CABRIOLET	2	01/13/18	3	47	129	119.1	3.3	3.5	0.2	0.1	16288	3.3	3.3	537	544	C	32423	1326	1	P	04/06/18	01/11	57	83
13	HO	CABRIOLET	2	12/25/17	3	45	148	87.6	4.7	3.7	1.0	0.4	14442	4.9	3.5	712	499	C	25635	-1226	1	P	03/16/18	12/21	51	81
14	HO	SUPERSIRE	2	07/05/17	2	39	321	81.8	4.0	3.4	2.6	2.6	32184	4.1	3.2	1309	1039	A	36457	1301	3	P	02/04/18	11/11	46	214
15	HO	SUPERSIRE	3	06/05/18	2	35	284	63.0	3.1	2.9	0.3	2.8	33041	2.6	2.9	870	960	A	41851	5538	1	P	10/20/17	07/27	52	70
16	HO	JACEY	2	10/12/17	2	37	222	89.4	3.2	3.3	4.4	4.4	23488	3.2	3.2	740	757	C	34355	50	3	P	03/10/18	12/15	79	149
17	HO	MOGUL	2	12/01/17	2	38	172	121.2	2.3	2.7	0.9	0.7	21255	2.3	2.7	498	571	C	36416	1769	1	P	02/09/18	11/16	99	70
18	HO	JITTERBUG	6	08/19/16	1	22	641	57.2	3.7	3.5	1.9	1.7	48684	3.7	3.2	1802	1551	B	34514	1152		C				664
19	HO	JAKE	2	11/04/17	2	35	199	89.9	4.5	3.2	1.4	1.0	19450	3.3	3.1	647	609	C	31136	-2182	4	N	04/21/18		57	222
20	HO	MOGUL	2	10/31/17	2	33	203	71.7	3.9	3.1	2.3	2.2	16586	3.6	3	601	495	D	26949	-1657	1	P	01/12/18	10/19	42	73
21	HO	SUPERSIRE	2	01/27/18	2	36	115	127.3	2.5	2.7	0.1	0.1	13219	3.4	2.7	448	356	C	34135	4077	2		06/02/18	03/09	71	126
22	HO	JAKE	6	01/02/17	1	21	505	45.8	4.5	3.8	3.1	3.2	31772	4	3.5	1285	1117	D	27577	-2219		C				528
23	HO	HALOGEN	6	04/13/17	1	24	404	81.5	3.8	3.4	2.9	3.4	36526	3.6	3.2	1331	1155	B	36517	2179		C				427
24	HO	TROY	3	04/29/18	1	23	403					1.7	30262	3.7	3.1	1134	925	C	32198	205	3	P	09/22/17	06/29		184
25	HO	HALOGEN	3	04/21/18	1	25	287					2.7	17639	4	3.1	704	548	E	24104	-5389	1	P	09/15/17	06/22		69
26	HO	TROY	2	05/18/18	2	35	4													-2516					50	27
27	HO	RODGERS	6	05/24/17	1	22	363	89.7	4.0	3.4	0.9	1.6	34701	3.4	3.2	1192	1118	A	38854	2828		C				386
28	HO	507HO1176	6	10/14/17	1	26	220	73.3	4.2	3.6	1.5	2.7	14996	3.7	3.6	559	542	D	25324	-3837	3	P	03/17/18	12/22		154
29	HO	CABRIOLET	2	05/21/18	2	33	1													-983					53	24
30	HO	CABRIOLET	2	04/16/18	2	32	36	100.8	4.3	2.9	0.1		3251	4.7	3.2	154	104			-2687					51	59
31	HO	TROY	6	07/19/17	1	22	307	67.2	3.9	3.6	6.1	6.7	25501	3.9	3.4	997	870	A	34746	30	4	P	01/14/18	10/21		179
32	HO	CABRIOLET	6	01/05/18	1	25	137	91.6	3.6	3.3	3.4	3.1	12025	4	3.1	484	378	C	30188	208	2	P	05/11/18	02/15		126
33	HO	RODGERS	6	09/21/17	1	21	243	75.3	4.2	3.4	6.8	0.1	18547	4	3.3	736	606	B	31676	-1481	1	P	12/01/17	09/07		71
34	HO	RODGERS	6	10/02/17	1	21	232	71.5	3.9	3.4	1.0	1.9	18175	3.6	3.3	658	605	C	30586	-1246	1	P	12/08/17	09/14		67
35	HO	DAMARIS	6	10/27/17	1	21	207	84.9	3.6	3.4	1.2	1.1	15836	3.4	3.3	546	525	C	30679	-1187	4		05/25/18	03/01		210
36	HO	MOGUL	6	05/14/18	1	28	8	50.1	6.9	3.6	4.8		292	6.8	3.8	20	11									31
37	HO	RODGERS	6	02/11/18	1	23	100	87.2	3.6	3.0	0.1	0.5	8389	4.1	2.9	342	243	C	29306	39	1	N	05/03/18			123
38	HO	SUPERSIRE	6	02/27/18	1	21	84	113.3	3.4	2.9	0.4	0.5	7949	3.3	3	259	237	B	35853	2982	1		05/18/18	02/22		80
39	HO	TROY	6	05/15/18	1	22	7	46.0					232													30
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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 lact.

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

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 - C. Laminitis
 - D. Mad cow disease
 - E. Milk fever
36. What instrument is used to puncture the rumen in cases of bloat?
- A. Balling gun
 - B. Cryoscope
 - C. Elastrator
 - D. IV tube
 - E. Trocar
37. The most common walk-through treatment for foot rot is a 5% solution of _____.
- A. Copper sulfate
 - B. Formaldehyde
 - C. Iodine
 - D. Sodium bicarbonate
 - E. Zinc sulfate
38. What is the most effective management tool to control flies on a dairy farm?
- A. Clipping high grass in pastures
 - B. Fly tags
 - C. Parasitic wasps
 - D. Sanitation
 - E. Vaccination
39. An animal unit consists of how many pounds of live animal weight?
- A. 100
 - B. 250
 - C. 500
 - D. 1,000
 - E. 1,500
40. When using teat dip as a pre-dip, how long should the dip be left on the teat before it is wiped off?
- A. 5 seconds
 - B. 10 seconds
 - C. 30 seconds
 - D. 1 minute
 - E. 2 minutes

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For questions 41-50, use the cow information provided for the exam. The last test day was May 21, 2018.

41. How many second lactation cows are in the herd?

- A. 4
- B. 6
- C. 10
- D. 15
- E. 20

42. How many cows left the herd since the last test day?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

43. How many cows have been labeled "do not breed"?

- A. 3
- B. 4
- C. 5
- D. 6
- E. 7

44. Which cow is due to calve next?

- A. 7
- B. 10
- C. 15
- D. 24
- E. 25

45. How many cows currently have a somatic cell score greater than 6.0?

- A. 2
- B. 4
- C. 5
- D. 7
- E. 9

46. Which cow has the lowest Estimated Relative Producing Ability?

- A. 7
- B. 25
- C. 28
- D. 30
- E. 31

47. Which first lactation cow calved most recently?

- A. 10
- B. 15
- C. 36
- D. 39
- E. 40

48. How many cows have more than 150 days open?

- A. 13
- B. 14
- C. 15
- D. 16
- E. 25

49. How much milk has Cow 5 produced this lactation thus far?

- A. 103.8 pounds
- B. 1,092 pounds
- C. 2,757 pounds
- D. 29,631 pounds
- E. 36,846 pounds

50. Which cow has the highest fat test on the current test day?

- A. 3
- B. 8
- C. 9
- D. 13
- E. 36