2011 Iowa FFA Dairy Cattle Evaluation CDE Test West Union, Iowa September 17, 2011

Mark the <u>best</u> answer in the proper blank on the Scantron sheet.

25 Objective Questions -- 2 pts. each

 Ketosis is a nutritional d a. excess calcium 		used primarily by c. excess protein			
 Dystocia refers to: a. calving ease 	b. herd health	c. mastitis	d. energy consumption		
3. At birth, which stomach a. abomasum	area is the largest in th b. omasum	e calf? c. rumen	d. reticulum		
4. Washing the udder prior a. estrogen	to milking stimulates th b. testosterone	ne release of where where the second sec	hich induces milk letdown. d. oxytocin		
5. Which of the following la a. TPI	bels indicate genomica b. PTPI	al testing? c. CTPI	d. GTPI		
6. Which region has the me a. Midwest	ost dairy farms? b. Northeast	c. Southeast	d. West		
 Feeding texturized calf g a. longer papillae in c. higher body weigl 	the rumen				
8. What is the name of mill a. dextrose	sugar? b. lactose	c. sucrose	d. fructose		
9. What term describes the a. calving	e removal of an animal b. colostrum	from a herd? c. conception	d. culling		
10. Where is oxytocin store a. ovarian follicle	d and released? b. corpus luteum	c. pituitary gland	c adrenal gland		
11. The first milk secreted a a. coliform	after calving is called b. collagen	. c. clostridia	d. colostrum		
12. Which of the following interpretation on a sire summary indicates foreign daughter information? a. genomic b. international c. mace d. pace					
13. Heritability describes the degree to which offspring resemble their parents for a certain trait. Which of the following is the most heritable trait?					
a. milk	b. udder	c. body size	d. feet legs		
14. The protozoal organism cryptosporidium parvum causes an illness known to many of us a crypto. Crypto is a common cause of what ailment in calves?					
a. pneumonia	b. mange	c. diarrhea	d. red nose		

15. This substance forms in the tip of each teat when the cow is dry. It aids in sealing the teats to prevent infection in the udder.					
a. opaque	b. skin	c. mucus	d. keratin		
16. If the following rumen co a. formalin	ontent is 'depressed', fa b. butyric acid	at content of milk is mo c. acetic acid	ost likely depressed. d. lactic acid		
17. Until how many hours of a. 48	d will a calf's intestine b. 24	absorb the disease-fig c. 12	hting ingredients of colostrum? d. 4		
18.The time period that a co a. rumination	w carries a calf is calle b. lactation	ed? c. gestation	d. parturition		
19. "UHT" milk is pasteurize a. 145	d at what approximate b. 161	minimum temperature c. 191	e in degrees Fahrenheit? d. 280		
20. How does a robotic milk a. Teat sphincter ser c. Sonomatic cell se	nsors	bw ready to be milked? b. Milk detection sen d. Lasers or vision ca	sors		
21. Which component in col survival of the calf?	ostrum fed during the f	first day of life is most o	critical to the health and		
a. immunoglobulin	b. somatic cells	c. vitamin D	d. vitamin A		
22. Lameness or sore feet is often a sign of what digestive disorder? a. retained placenta b. metritis c. fatty liver disease d. acidiosis					
23. What type of feed is mo a. corn silage		sing bloat in cattle? c. corn gluten meal	d. pastured alfalfa		
24. What is the name of the process where warm milk is forced through tiny holes in order to break the fat particles into tiny pieces?					
a. pasteurization	b. conception	c. fertilization	d. homogenization		
25. Which vitamin can carotene be substituted for?					
a. A	b. B	c. C	d. D		

TURN the Scantron Sheet **OVER** to mark the Appropriate Answers beginning with <u>number 51</u>

DHIA Questions -- 5 pts. each

Refer to the Appendix A--DHI-202(both sides) to answer the following questions.

51. W	hat is the total cows in	milk?		
	a. 418	b. 458.9	c. 142	d. 357
	1		- i= f== 0/04/440	
52. W	nat is the rolling yearly	herd average for prot	ein for 8/24/11?	
	a.23275	b. 834	c. 729	d. 418
53. W	hich group had the hig	hest projected 305 da	y ME?	
	a. 1st lactation	b. 2nd lactation	c. 3rd + lactation	d. all lactations
	bet wee the dellar less	from CCC during this	toot poriod?	
54. VV	hat was the dollar loss	from SCC during this	test period?	
	a. \$17.93	b. \$6,037	c. \$265.60	d. \$27110
55. How many live bull calves were born to 1st lactation heifers?				
	- 001	h 60	o 115	d 56
	a. 201	b. 62	c. 145	d. 56

Dairy Management Problems -- 5 pts. each

56. A load of hay consisting of large square bales averaging 750#/bale costs \$85.00/bale. What is the cost of one ton of this hay?

a.\$226.67	b.\$221.50	c.\$200.00	d.\$236.85
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57. What percent protein is the following ration?

	0		
	pounds		%protein
Whole Cottonseed	305		23
Barley Pea silage	725		5.1
Ground shelled corn	825		8.3
Haylage	1500		5.8
Hay	450		23.5
Protein Mix	300		44
Mineral	100		0
a.12.23	b.12.67	c.12.22	d.11.90

58. What is the component value of a hundredweight of milk if the farm produces 185,000 pounds of milk with the following:

milk with the l	•			
	Compo	nents		\$Basis Milk Value
	Butterfat	4.5 %		1.639 per pound
	Protein	3.68 %		4.125 per pound
	Solids	5.99 %		.0531 per pound
	SCC	225,000		.29 per cwt
a.\$23.	.33	b.\$23.16	c.\$23.67	d.\$23.93
	=	tion by grinding 8.7% ded to make a two to		d 43% complete protein mix. How
a.326		b.3379	c.1689	d.3548
a.520	5	0.3379	0.1009	0.3340
60. A cow cor matter does if a.40.9	t contain?	ds of corn silage tha b.24.05	t contains 63% n c.23.75	noisture. How many pounds of dry d.39.85
a.40.9	00	0.24.05	0.23.75	0.39.85
Refer to App er following quest	stions.	2011 Holstein Asso	-	king Sire Report) to answer the
Refer to App er following quest	endix B (August stions.		-	
Refer to App er following quest	endix B (August stions. breviation indica	2011 Holstein Asso	-	
Refer to App following que	endix B (August stions. breviation indica	tes the bull was teste	ed free of BLAD?	,
Refer to App following que 61. Which ab a. TL	endix B (August stions. breviation indica	tes the bull was tester b. TV	ed free of BLAD?	,
Refer to App following ques 61. Which abl a. TL 62. Which bul	endix B (August stions. breviation indica Il was an embryo	tes the bull was teste b. TV o transfer?	ed free of BLAD? c. TR	d. TY
Refer to App following que 61. Which abl a. TL	endix B (August stions. breviation indica Il was an embryo	tes the bull was tester b. TV	ed free of BLAD? c. TR	,
Refer to App following ques 61. Which ab a. TL 62. Which bul a. Rar	endix B (August stions. breviation indica Il was an embryo mos b. Main	tes the bull was teste b. TV o transfer?	ed free of BLAD? c. TR c. Morningview	d. TY
Refer to App following ques 61. Which ab a. TL 62. Which but a. Rar 63. Which sire	endix B (August stions. breviation indica Il was an embryo mos b. Main e should improve	tes the bull was teste b. TV o transfer? stream Manifold	ed free of BLAD? c. TR c. Morningview	d. TY / Levi d. Hartline Jayton
Refer to App following ques 61. Which ab a. TL 62. Which but a. Rar 63. Which sire a. Ens	endix B (August stions. breviation indica Il was an embryo mos b. Main e should improve senada Taboo P	tes the bull was teste b. TV o transfer? stream Manifold e udder and feet and lanet	ed free of BLAD? c. TR c. Morningview llegs? b. Siemers Toy	d. TY v Levi d. Hartline Jayton vs Hero
Refer to App following ques 61. Which ab a. TL 62. Which but a. Rar 63. Which sire a. Ens	endix B (August stions. breviation indica Il was an embryo mos b. Main e should improve	tes the bull was teste b. TV o transfer? stream Manifold e udder and feet and lanet	ed free of BLAD? c. TR c. Morningview	d. TY v Levi d. Hartline Jayton vs Hero
Refer to Appe following ques 61. Which ab a. TL 62. Which but a. Rar 63. Which sinc a. Ens c. O-B 64. Which but	endix B (August stions. breviation indica II was an embryo mos b. Main e should improve senada Taboo P Bee Manfred Jus II should raise th	tes the bull was teste b. TV o transfer? stream Manifold e udder and feet and lanet tice e component value o	ed free of BLAD? c. TR c. Morningview l legs? b. Siemers Toy d. Crockett-Act	d. TY v Levi d. Hartline Jayton vs Hero res Otto ?
Refer to App following ques 61. Which abl a. TL 62. Which but a. Rar 63. Which sire a. Ens c. O-E 64. Which but a. Gra	endix B (August stions. breviation indica Il was an embryo mos b. Main e should improve senada Taboo P Bee Manfred Jus Il should raise th an-J OMan McCo	tes the bull was teste b. TV o transfer? Istream Manifold audder and feet and lanet tice e component value o prmick	ed free of BLAD? c. TR c. Morningview l legs? b. Siemers Toy d. Crockett-Act of fat and protein b. Lotta-Hill Sh	d. TY v Levi d. Hartline Jayton vs Hero res Otto ? nottle
Refer to App following ques 61. Which abl a. TL 62. Which but a. Rar 63. Which sire a. Ens c. O-E 64. Which but a. Gra	endix B (August stions. breviation indica II was an embryo mos b. Main e should improve senada Taboo P Bee Manfred Jus II should raise th	tes the bull was teste b. TV o transfer? Istream Manifold audder and feet and lanet tice e component value o prmick	ed free of BLAD? c. TR c. Morningview l legs? b. Siemers Toy d. Crockett-Act	d. TY v Levi d. Hartline Jayton vs Hero res Otto ? nottle
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Refer to Appe following ques 61. Which abl a. TL 62. Which but a. Rar 63. Which sine a. Ens c. O-B 64. Which but a. Gra c. Sar	endix B (August stions. breviation indica Il was an embryo mos b. Main e should improve senada Taboo P Bee Manfred Jus Il should raise th an-J OMan McCo ndy-Valley Boltor	tes the bull was teste b. TV o transfer? stream Manifold e udder and feet and lanet tice e component value o prmick	ed free of BLAD? c. TR c. Morningview l legs? b. Siemers Toy d. Crockett-Act of fat and protein b. Lotta-Hill Sh d. Ensenada T	d. TY v Levi d. Hartline Jayton vs Hero res Otto ? nottle
Refer to Appe following ques 61. Which abl a. TL 62. Which bul a. Rar 63. Which sire a. Ens c. O-B 64. Which bul a. Gra c. Sar 65. What fact	endix B (August stions. breviation indica Il was an embryo mos b. Main e should improve senada Taboo P Bee Manfred Jus Il should raise th an-J OMan McCo ndy-Valley Boltor	tes the bull was teste b. TV o transfer? stream Manifold e udder and feet and lanet tice e component value o prmick	ed free of BLAD? c. TR c. Morningview legs? b. Siemers Toy d. Crockett-Act of fat and protein b. Lotta-Hill Sh d. Ensenada T	d. TY v Levi d. Hartline Jayton vs Hero res Otto ? nottle aboo Planet

Pedigree Questions -- 5 pts. each

Refer to Ap	pendix C (Heife	r Pedigrees) to answe	er the following question	ns.		
#1	Lot 2	Diamond K Legal 2969				
#2	Lot 4	GR Moon Meadow	GR Moon Meadow Upper Cut Urbane			
#3	Lot 5	Renner Farm Action	Renner Farm Action Kenzie			
#4	Lot 13	DP Valentino Cream	ոpuff 999			
66. Which h	eifer was not bo	orn in 2011?				
a. 1		b. 2	c. 3	d. 4		
67. Which h	eifer has the lea	ast improvement for sta	ature?			
a. 1		b. 2	c. 3	d. 4		
68. What is	the name of the	maternal granddam o	of #4?			
a. Pa	arade Louie		b. DP Jacinto Crear	npuff		
c. DF	P Geronimo Cre	ampuff	d. D & E Paramoun	t Violet		
69. Which heifer would have the most improvement in all aspects of the mammary system?						
a. 1		b. 2	c. 3	d. 4		
70. Which heifer's sire was not an embryo transfer?						
a. 1		b. 2	c. 3	d. 4		

Please use Placing Class Card for the next three sections.

Phase E -- Pedigree Evaluation

Refer to **Appendix C** (Heifer Pedigrees) to rank the animals based on their pedigree and indicate your ranking on the answer sheet.

#1	Lot 2	Diamond K Legal 2969
#2	Lot 4	GR Moon Meadow Upper Cut Urbane
#3	Lot 5	Renner Farm Action Kenzie
#4	Lot 13	DP Valentino Creampuff 999

Phase F -- Sire Evaluation

You are a commercial dairy producer who wants moderate sized cows that have good, well-attached udders and sound feet and legs as these cows do best in your system. Furthermore, you prefer cows with good production and high components to cows with high production but low components. You currently have a large group of breeding age heifers that you would like to breed to the same bull with the hope of being one of the first dairy producers to have several milking daughters of the next "hot" bull. Consequently you want to use one of the following four sires who only have a genomic proof. Using **Appendix D** which sire should be your first, second third and fourth choice to use on these heifers?

Bull #1 EMERGENCYBull #2 GOLDEN BOYBull #3 KAYSONBull #4 PEPPER

Phase G -- Culling Class

You milk in a tie-stall barn and want to keep a milking cow in every stall and not have to shift cows in and out to get them all milked. All dry cows are housed elsewhere. You sell high volumes of high quality milk with emphasis on reproductive efficiency. You had a first-calf heifer calve this morning and you want to cull one of the following four cows to make room for this fresh heifer. Use the attached Cow Pages (**Appendix E**) to place the cows in the order that you would cull them from your herd. The first cow you wold cull should be ranked #1 and the last cow you would cull should be ranked #4.

 Cow #1
 Index 6712
 Cow #2
 Index 6723
 Cow #3
 Index 6778
 Cow #4
 Index 6831

2011 Iowa FFA Dairy Cattle Evaluation CDE Key

	<u>ZUTTIOWA FFA Dairy C</u>	<u>Jaille</u>	<u>Evaluation (</u>	<u>JDE Rey</u>
<u>Test l</u>	Lev 2	Phase	E Pedigree Placing	-
1.	 D		g 2 - 1 - 4 - 3	Cuts 4 - 1 - 8
		i lacin	g z - 1 - 4 - 0	0013 4 - 1 - 0
2.	A	-		
3.	A	2 -	Highest JPI (159), CM	I,NM,FM
4.	D		Highest fat, protein, 3r	d highest milk
5.	D	1-	2nd highest CM,NM,F	
6.			U	
	A		Similar milk, fat, protei	III 10 #4
7.	A		Close middle pair	
8.	В	4-	Close JPI to #1	
9.	D		Higher type (1.9)	
10.	С	3-	Lowest JPI (35)	
11.		U	Negative milk, fat, pro	tain
	D			leni
12.	С		Lowest CM,NM,FM	
13.	C			
14.	С	Phase	F Sire Selection	
15.	D		g 1 - 2 - 3 - 4	Cuts 2 - 5 - 7
16.	C	i idolii	91204	
			One allowing statement ()	
17.	C	1-	Smaller in stature (04	
18.	С		Highest UDC - (1.42)	TPI (231) milk (1024)
19.	D		Highest component va	alues Fat
20.	D		3rd FLC (.66)	
21.		2-		asa marit highaat
	A	2-	Net merit highest, che	ese ment nighest
22.	D		2nd high TPI (221)	
23.	D		2nd milk, protein, fat v	alues
24.	D		2nd strongest compon	ient values.
25.	А	3-	3rd TPI (179)	,
20.		U	3rd milk, protein, last i	n fat
	Owentiens			
	Questions		3rd high in NM, FM, C	
51.	D		Lowest UDC, highest	FLC
52.	С		Smaller in stature (06	6)
53.	A	4-		in as well as NM, FM, CM
54.	В	•	Largest stature (1.9)	
55.	D		High UDC, low FLC	
			Lowest TPI (139)	
Dairy	<u>Management</u>			
56.	A	Phase	G Culling	
57.	D		g 2 - 1 - 3 - 4	Cuts 1 - 7 - 4
		i lacin	ig z - i - 0 - 4	0013 1 - 7 - 4
58.	В	-		
59.	A	2-	91% reproductive effic	
60.	В		Medium SCC - chronic	c condition
Sire S	<u>Summary</u>	1-	92% reproductive effic	ciency
61.	A		Low SCC - One high c	
62.	D			e - stay same each year
63.	В	3-	94% reproductive effic	ciency
64.	A		Lowest SCC	
65.	D		2nd best average milk	production, best fat
			Herdmate deviations +	
Dadia	area Evoluation	1		
	gree Evaluation	4-	100% reproductive eff	
66.	D		Highest average milk	production
67.	A		Low SCC	
68.	С		Herdmate deviations a	are best of group
69.	D			5 1
70	B			

70. B