Name	ə	FF	-A Chapter						
	er for each question. Ea	swers in the "Exam" section ch question is worth 3 point							
	How many points are a	ssigned to rear feet and legs	on the PDCA Dairy Cow l	Jnified Scorecard?					
1	A) 10	B) 20	C) 25	D) 40					
	What is the common na	ame for fibropapellomatosis?							
2	A) Foot rot	B) Ringworm	C) Twisted stomach	D) Warts					
	Where is the headquar	ters of the National Milk Prod	ucers Federation located	?					
3	A) Arlington, VA	B) Columbus, OH	C) Indianapolis, IN	D) Madison, WI					
_	After the first milking, r	milk in a bulk tank should not	reach higher than what to	emperature at any time?					
4	A) 32°F	B) 40°F	C) 50°F	D) 60°F					
_	How many times per year are official U.S. genetic evaluations for dairy cattle released?								
5	A) 2	B) 3	C) 4	D) 6					
	What measurement is most commonly used as an indicator of mastitis?								
6	A) Acid degree value	B) Preliminary incubation count	C) Somatic cell count	D) Standard plate count					
	When is the most effec	tive time to treat mastitis infe	ections?						
7	A) At calving	B) At drying off	C) Clinical mastitis observed	D) Subclinical mastitis detected					
_	What are the tiny, finge	r-like projections that line the	e wall of the rumen called	?					
8	A) Caruncle	B) Cotyledon	C) Papilli	D) Villi					
	What is most frequently	y the cause of high bacteria o	counts in milk?	!					
9	A) Dirty equipment	B) Failure to use teat dip	C) Low vacuum levels	D) Poorly maintained housing					
10	What is the term given an oven?	for the portion of a feed that	remains after water has b	een removed by drying in					
	A) Ash	B) Dry matter	C) Mineral	D) Moisture					
	In nutrient managemen animal?	nt planning, an animal unit co	nsists of how many pound	ls of live weight of any					

C) 1,000 pounds

D) 1,300 pounds

A) 100 pounds

B) 500 pounds

40	What is the period of time when a cow is in milk called?									
12	A) Days open	B) Dry period	C) Gestation	D) Lactation						
13	How much milk was produced in the United States in 2019?									
13	A) 223,200 pounds	B) 223.2 million pounds	C) 223.2 billion pounds	D) 223.3 trillion pounds						
14	What disease in calves is also very common in poultry and is characterized by chronic diarrhea?									
14	A) Coccidiosis	B) Cryptosprirosis	C) Navel joint ill	D) Pneumonia						
15	What term is used for a ch	nemical solution used to kil	l bacteria on product conta	ct surfaces?						
15	A) Antibiotic	B) Detergent	C) Oxidizer	D) Sanitizer						
16	What term is used for dise human beings?	eases and infections that ar	e transmitted between vert	ebrate animals and						
	A) Contagious	B) Metabolic	C) Pathogenic	D) Zoonoses						
17	What is the common name	e for Brucellosis?								
17	A) Bang's disease	B) Circling disease	C) Founder	D) Retained placenta						
18	Which volatile fatty acid is	the primary source of ene	rgy and milk fat?							
10	A) Acetic acid	B) Butyric acid	C) Lactic acid	D) Propionic acid						
19	If colostrum is pasteurized, what temperature should be used?									
19	A) 140°F	B) 145°F	C) 161°F	D) 180°F						
20	What is the feed that a cow has regurgitated and is being re-chewed called?									
20	A) Chyme	B) Cud	C) Ort	D) Particulate						
21	What is the target body condition score for a cow in mid-lactation?									
۷۱	A) 1.0	B) 2.0	C) 2.75	D) 3.5						
22	What term is used for the cow?	period of time after calving	when the dairy producer c	hooses not to breed a						
22	A) Days open	B) Days to first breeding	C) Involution	D) Voluntary waiting period						
23	What type of mastitis consimultaneous reduction in		f time, with progress develo	pment of scar tissue and						
	A) Acute	B) Clinical	C) Chronic	D) Subclinical						
24	At what stage of life are ca	attle with Johne's disease u	usually infected?							
24	A) Soon after birth	B) Yearling	C) Springing heifer	D) Mature cow						

05	Heifers should calve for the first time at approximately what percent of mature bodyweight?								
25	A) 40%	B) 55%	C) 82%	D) 95%					
26	What bull stud is represented by stud code 29?								
20	A) ABS Global	B) Genex	C) Select Sires	D) Semex					
07	Which acid is undesirable during ensiling?								
27	A) Acetic acid	B) Butyric acid	C) Lactic acid	D) Propionic					
28	Fermentation is the prima	ry digestive process in whi	ch of the cow's stomach co	mpartments?					
20	A) Abomasum	B) Omasum	C) Reticulum	D) Rumen					
00	How many months are rec	uired for composting dead	calves and cows?						
29	A) 1 month	B) 2 to 6 months	C) 1 year	D) 2 years					
20	Which breed's association headquarters is located in Beloit, Wisconsin?								
30	A) Ayrshire	B) Brown Swiss	C) Holstein	D) Jersey					
04	What is the most important factor to consider in determining when to breed a heifer for the first time?								
31	A) Age	B) Body size	C) Dry matter intake	D) Height					
20	calf housing is housing in which environmental temperature is controlled.								
32	A) Ambient	B) Automated	C) Cold	D) Warm					
00	To determine the protein content of a feed, multiply the nitrogen fraction by what number?								
33	A) 2.25	B) 6.25	C) 10	D) 16					
34	Funding for the Cooperatives Working Together (CWT) program comes from farmers who invest how many cents per hundredweight of milk sold?								
	A) 4 cents	B) 7 cents	C) 10 cents	D) 15 cents					
0.5	What ingredient is often a	dded to dairy cattle rations	to improve taste and reduc	ce dustiness?					
35	A) Limestone	B) Molasses	C) Vegetable oil	D) Water					
36		gram for organic livestock p from pasture during the gra	production requires a diet cazing season?	onsisting of at least what					
	A) 10%	B) 30%	C) 50%	D) 90%					
27	How many hours of light p	per day are provided to lact	ating cows with a long-day	photoperiod?					
37	A) 12 to 13	B) 14 to 15	C) 16 to 18	D) 20 to 21					

	Which dairy breed has the longest gestation period on average?							
38	A) Ayrshire	B) Brown Swiss	C) Guernsey	D) Milking Shorthorn				
00	The first National Dairy Cow Show was held in what city?							
39	A) Chicago, IL	B) Columbus, OH	C) New York, NY	D) Philadelphia, PA				
40	The rumen is acidotic when rumen pH drops below what level?							
40	A) 4.0	B) 5.9	C) 6.8	D) 8.2				

For questions 41-50, use the cow information provided for the exam. The last test day was July 20, 2021. The report was generated on July 30, 2021.

111010	How many reproductive culls are in the herd?								
41	How many reproductive c	uils are in the herd?							
	A) 1	B) 3	C) 10	D) 11					
42	What is Cow 18's current status?								
42	A) Calved	B) Dry	C) In milk	D) Left herd					
40	Which cow has the most of	desirable Estimated Relativ	e Producing Ability (ERPA)	for milk?					
43	A) 11	B) 13	C) 24	D) 34					
	Which cow is due to calve next?								
44	A) 7	B) 9	C) 17	D) 18					
45	Which first lactation cow calved most recently?								
45	A) 23	B) 25	C) 38	D) 40					
40	How many cows had a somatic cell score greater than 4.0 for both the current and previous month?								
46	A) 3	B) 4	C) 9	D) 10					
4-	Which cow produced the	most milk on the most rece	ent test day?						
47	A) 3	B) 7	C) 24	D) 33					
40	Which cow has produced	the most pounds of protein	in their lactation to date?						
48	A) 3	B) 15	C) 16	D) 18					
40	How many cows left the h	erd this month?							
49	A) 0	B) 1	C) 4	D) 5					
	How many times has Cow	2 been bred?							
50	A) 0	B) 2	C) 3	D) 5					

2021 Virginia FFA Dairy Cattle Evaluation and Management CDE Written Exam: Cow Information for Questions 41-50

Date of Test: 07/20/2021 Reference Date: 07/30/2021

Cow			S	tatus	Lact	Age			Test n	onth		Prev.		La	ctatio	n to Da	ate		ME	ERPA	No.	Repro	Last	Date	Days	Days
ID	Breed	Sire ID	Code		No.	(mo.)		Milk		Pro%	SCS	SCS	Milk	Fat%		Fat	Pro	Rating	Milk	Milk	Breedings	Code	Bred	Due	Dry	Open
1	JE	CHARNESA	2	06/03/21	7	101	58	69.4	5.6	2.7	0.7	1.7	2853	5.4	3.0	153	87	D	18175	-1196						58
2	JE	DAZZLER	2	11/24/20	5	80	249	55.5	5.8	3.6	6.7	2.8	17934	5.0	3.8	901	675	В	21096	1466	3	Р	04/14/21	01/18		141
3	JE	AXIS	2	09/03/20	4	77	331	60.4	4.6	3.7	3.3	3.5	24743	4.7	3.7	1151	906	Α	25951	2446		С				331
4	JE	AXIS	2	12/31/20	4	72	212	79.9	4.3	3.7	0.6	0.6	17089	4.9	3.4	831	587	В	23112	-141	1	Р	03/19/21	12/23		78
5	JE	AXIS	2	01/31/21	4	66	181	76.3	3.6	3.5	3.8	3.7	16726	4.2	3.1	706	526	С	23950	532	1	Р	04/23/21	01/27		82
6	JE	BADGER	2	03/06/21	4	65	147	75.3	4.9	3.5	3.3	4.3	10367	4.6	3.4	482	355	D	18816	821	2		06/22/21	03/28		108
7	JE	AXIS	2	04/30/21	4	61	92	102.6	6.4	3.0	1.5	0.1	7069	4.6	3.1	327	217	Α	22435	1050	1		07/23/21	04/28		84
8	JE	RENO	2	10/12/20	3	61	292	58.3	4.3	3.5	3.8	3.3	19595	4.1	3.3	795	650	С	22680	-286	4	Р	05/14/21	02/17		214
9	JE	AXIS	3	06/17/21	3	59	274						18610	4.6	3.6	857	675	В	22774	-260	1	Р	12/04/21	09/09	44	79
10	JE	SAINT	2	04/14/21	3	53	108	85.2	5.1	3.7	1.0	1.3	7724	4.9	3.5	380	269	В	20674	-1956	1		07/02/21	04/07		79
11	JE	RENO	2	02/23/21	3	53	158	98.8	3.8	3.1	0.5	1.7	14562	4.3	3.2	629	461	Α	25987	3653	1	Р	05/14/21	02/17		80
12	JE	VANDRLLGR	2	03/25/21	3	52	128	86.3	3.9	3.3	4.9	4.0	10375	4.4	3.3	459	343	С	21938	-469	2		07/03/21	04/08		100
13	JE	SAINT	2	12/18/20	3	51	225	53.7	3.4	3.5	2.2	1.6	12156	4.6	3.7	560	452	E	16734	-3742	1	Р	03/12/21	12/16		84
14	JE	RENO	2	05/08/21	3	51	84	82.4	4.7	3.5	0.5	0.1	5381	5.3	3.3	287	175	С	20279	-919						84
15	JE	SAINT	2	10/06/20	2	50	298	41.6	4.6	4.5	2.5	1.7	21275	4.8	3.6	1026	765	Α	25636	1901	2	Р	01/17/21	10/23		103
16	JE	RENO	2	07/08/21	3	49	23	35.1	4.4	3.6	4.8		361	4.7	4.2	17	15			1963		_				23
17	JE	SAINT	3	05/30/21	2	49	279						15502	5.2	3.6	808	556	С	19780	-1653	1	Р	11/13/21	08/19	62	81
18	JE	RENO	3	06/17/21	2	47	292						21067	5.5	3.6	1156	757	A	26552	2824	1	Р	11/20/21	08/26	44	83
19	JE	RENO	2	06/09/21	3	46	52	59.6	4.2	3.3	1.2	1.0	1950	4.5	3.7	87	72	D	17783	1060						52
20	JE	SANGITA	2	01/23/21	2	42	189	64.6	4.5	3.6	4.4	5.2	13333	5.8	3.4	771	447	В	21495	-845	1	Р	04/09/21	01/13		76
21	JE	SAINT	2	01/23/21	2	41	189	75.8	5.8	3.9	2.8	2.7	15043	5.1	3.6	765		<u>A</u>	25350	1122	3		07/02/21	04/07		160
22	JE	SAINT	2	04/22/21	2	37	100	45.9	5.2	4.0	6.5	2.9	5388	4.3	3.5	233	186	<u>E</u>	16202	-2070	1		07/09/21	04/14		78
23	JE	PRIAPUS	2	07/09/21	2	36	22	67.2	4.5	3.7	1.8		634	4.9	4.1	31	26			-446						22
24	JE	RONAL	2	07/07/21	2	35	24	88.7	3.5	3.3	2.8		991	3.8	3.7	38	37			3506						24
25	JE	PRIAPUS	2	07/14/21	2	34	17	32.5	9.6	3.4	5.4		171	9.9	3.5	17	6	_		-1644		_				17
26	JE	RONAL	3	07/25/21	1	33	386	45.0	6.0	4.2	4.5	2.9		5.3	4.0	1100	838	<u>A</u>	25226	980	3	P	12/18/21	09/23	6	167
27	JE	LEONEL	6	12/31/20	1	33	212	40.6	5.7	4.1	3.2	2.3	11570	4.9	3.7	565	433	D	17844	-1806	1	P	03/19/21	12/23		78
28	JE	LEONEL	6	10/04/20	1	33	300	41.9	3.6	3.7	1.9	2.1	14698	4.6	3.6	683	523	С	20596	-1046	3	P	02/09/21	11/15	4.4	128
29	JE	LEONEL	3	06/17/21	1	31	274	00.0		4.0	0.5	0.5	10681	5.5	3.7	583	397	D	17149	-3060	1	P	12/04/21	09/09	44	79
30	JE	LEONEL	6	11/01/20	1	30	272	38.0	5.5	4.2	2.5	2.5		5.1	3.9	675	511		19345	-1319	2	P	02/11/21	11/17		102
31	JE	PRIAPUS	6	11/03/20	1	30	270	36.3	4.3	3.4	3.6	3.0	11077	4.2	3.5	460	387	E	16609	-2738	2	P	02/14/21	11/20		103
32	JE	LEONEL	6	11/21/20	1	29	252	61.4	4.4	3.6	3.2	2.0		4.1	3.4	649	541	B	25795	2006	1	P	02/12/21	11/18		83
33	JE	RONAL	6	11/30/20	1	29	243	62.1	4.7	3.6	3.1	2.6	16555	4.4	3.3	721	554	Α	27217	2736	1	P	02/19/21	11/25		81
34	JE	LEONEL	6	01/26/21	1	28	186	60.5	4.5	3.5	2.9	0.5	10694	4.6	3.4	496	365		21664	20	2	P	05/13/21	02/16		107
35	JE	LEONEL	6	01/10/21	1	27	202	44.5	4.4	3.7	5.7	4.3	10308	4.0	3.4	410		D	19199	-1206	1	•	04/02/21	01/06		82
36	JE	FOURN	6	02/23/21	1	26	158	58.7	4.8	3.8	2.6	2.3	8458	3.9	3.4	327	290	<u>C</u>	21095	-59	1	P	05/14/21	02/17		80 82
37	JE	LEONEL	6	02/28/21	1	26	153	65.4	4.3	3.6	2.3	1.8	7994	4.4	3.5	349	283	С	21895	332	1	Р	05/21/21	02/24		78
38	JE	LEONEL	6	04/29/21	1	26	93	54.0	5.0	3.5	2.7	1.7	4599	3.3	3.5	154	159		19230	-688	1		07/16/21	04/21		
39	JE	LEONEL	6	04/05/21	1	25	117	65.0	5.1	3.7	1.1	0.7	6512	4.3	3.6	279	234	В	22530	907	1		06/25/21	03/31		81
40	JE	FOURN	6	06/17/21	1	24	44	68.0	5.0	3.2	6.0	5.6	1711	4.3	3.3	74	57	Α	23946	1326						44

Repro Codes
C. Do not breed

N. Open
P. Diagnosed pregnant

2. Calved

3. Dry

Status Codes 1. In milk

5. Left herd

7. Entered herd

6. First lactation 9. Induced lact.

8. Aborted

Rating Codes
A. Top Cows
B. Above Average

D. Marginal Cows E. Bottom Cows

C. Below Average

Name	9	FF	-A Chapter				
	er for each question. Eac	wers in the "Exam" section th question is worth 3 point					
	How many points are assigned to rear feet and legs on the PDCA Dairy Cow Unified Scorecard?						
1	A) 10	B) 20	C) 25	D) 40			
	What is the common na	me for fibropapellomatosis?					
2	A) Foot rot	B) Ringworm	C) Twisted stomach	D) Warts			
	Where is the headquarte	ers of the National Milk Prod	ucers Federation located?				
3	A) Arlington, VA	B) Columbus, OH	C) Indianapolis, IN	D) Madison, WI			
_	After the first milking, m	ilk in a bulk tank should not	reach higher than what ten	nperature at any time?			
4	A) 32°F	B) 40°F	C) 50°F	D) 60°F			
_	How many times per year are official U.S. genetic evaluations for dairy cattle released?						
5	A) 2	B) 3	C) 4	D) 6			
	What measurement is m	nost commonly used as an ir	ndicator of mastitis?				
6	A) Acid degree value	B) Preliminary incubation count	C) Somatic cell count	D) Standard plate count			
	When is the most effect	ive time to treat mastitis infe	ections?				
7	A) At calving	B) At drying off	C) Clinical mastitis observed	D) Subclinical mastitis detected			
	What are the tiny, finger	-like projections that line the	e wall of the rumen called?				
8	A) Caruncle	B) Cotyledon	C) Papilli	D) Villi			
	What is most frequently	the cause of high bacteria of	ounts in milk?				
9	A) Dirty equipment	B) Failure to use teat dip	C) Low vacuum levels	D) Poorly maintained housing			
10	What is the term given f an oven?	or the portion of a feed that	remains after water has bee	en removed by drying in			
	A) Ash	B) Dry matter	C) Mineral	D) Moisture			
44	In nutrient management animal?	planning, an animal unit co	nsists of how many pounds	of live weight of any			

C) 1,000 pounds

D) 1,300 pounds

11

A) 100 pounds

B) 500 pounds

40	What is the period of time when a cow is in milk called?								
12	A) Days open	B) Dry period	C) Gestation	D) Lactation					
40	How much milk was produced in the United States in 2019?								
13	A) 223,200 pounds	B) 223.2 million pounds	C) 223.2 billion pounds	D) 223.3 trillion pounds					
14	What disease in calves is also very common in poultry and is characterized by chronic diarrhea?								
14	A) Coccidiosis	B) Cryptosprirosis	C) Navel joint ill	D) Pneumonia					
45	What term is used for a ch	nemical solution used to kil	l bacteria on product conta	ct surfaces?					
15	A) Antibiotic	B) Detergent	C) Oxidizer	D) Sanitizer					
16	What term is used for dise human beings?	eases and infections that ar	e transmitted between vert	ebrate animals and					
	A) Contagious	B) Metabolic	C) Pathogenic	D) Zoonoses					
17	What is the common name	e for Brucellosis?							
	A) Bang's disease	B) Circling disease	C) Founder	D) Retained placenta					
18	Which volatile fatty acid is the primary source of energy and milk fat?								
10	A) Acetic acid	B) Butyric acid	C) Lactic acid	D) Propionic acid					
40	If colostrum is pasteurized, what temperature should be used?								
19	A) 140°F	B) 145°F	C) 161°F	D) 180°F					
20	What is the feed that a co	w has regurgitated and is b	eing re-chewed called?						
20	A) Chyme	B) Cud	C) Ort	D) Particulate					
04	What is the target body co	ondition score for a cow in	mid-lactation?						
21	A) 1.0	B) 2.0	C) 2.75	D) 3.5					
00	What term is used for the cow?	period of time after calving	when the dairy producer c	hooses not to breed a					
22	A) Days open	B) Days to first breeding	C) Involution	D) Voluntary waiting period					
23	What type of mastitis consimultaneous reduction in		time, with progress develo	pment of scar tissue and					
	A) Acute	B) Clinical	C) Chronic	D) Subclinical					
24	At what stage of life are ca	attle with Johne's disease ι	usually infected?						
24	A) Soon after birth	B) Yearling	C) Springing heifer	D) Mature cow					

05	Heifers should calve for the first time at approximately what percent of mature bodyweight?							
25	A) 40%	B) 55%	C) 82%	D) 95%				
00	What bull stud is represented by stud code 29?							
26	A) ABS Global	B) Genex	C) Select Sires	D) Semex				
07	Which acid is undesirable	during ensiling?						
27	A) Acetic acid	B) Butyric acid	C) Lactic acid	D) Propionic				
00	Fermentation is the prima	ry digestive process in whi	ch of the cow's stomach co	mpartments?				
28	A) Abomasum	B) Omasum	C) Reticulum	D) Rumen				
00	How many months are rec	quired for composting dead	calves and cows?					
29	A) 1 month	B) 2 to 6 months	C) 1 year	D) 2 years				
30	Which breed's association headquarters is located in Beloit, Wisconsin?							
30	A) Ayrshire	B) Brown Swiss	C) Holstein	D) Jersey				
31	What is the most importar	nt factor to consider in dete	ermining when to breed a ho	eifer for the first time?				
31	A) Age	B) Body size	C) Dry matter intake	D) Height				
32	calf housing is housing in which environmental temperature is controlled.							
32	A) Ambient	B) Automated	C) Cold	D) Warm				
22	To determine the protein content of a feed, multiply the nitrogen fraction by what number?							
33	A) 2.25	B) 6.25	C) 10	D) 16				
34	Funding for the Cooperatives Working Together (CWT) program comes from farmers who invest how many cents per hundredweight of milk sold?							
	A) 4 cents	B) 7 cents	C) 10 cents	D) 15 cents				
25	What ingredient is often a	dded to dairy cattle rations	to improve taste and reduc	ce dustiness?				
35	A) Limestone	B) Molasses	C) Vegetable oil	D) Water				
36		gram for organic livestock p from pasture during the gra	production requires a diet cazing season?	onsisting of at least what				
	A) 10%	B) 30%	C) 50%	D) 90%				
27	How many hours of light p	per day are provided to lact	ating cows with a long-day	photoperiod?				
37	A) 12 to 13	B) 14 to 15	C) 16 to 18	D) 20 to 21				

	Which dairy breed has the longest gestation period on average?								
38	A) Ayrshire	B) Brown Swiss	C) Guernsey	D) Milking Shorthorn					
20	The first National Dairy Cow Show was held in what city?								
39	A) Chicago, IL	B) Columbus, OH	C) New York, NY	D) Philadelphia, PA					
40	The rumen is acidotic when rumen pH drops below what level?								
40	A) 4.0	B) 5.9	C) 6.8	D) 8.2					

For questions 41-50, use the cow information provided for the exam. The last test day was July 20, 2021. The report was generated on July 30, 2021.

	How many reproductive culls are in the herd?								
41	A) 1	B) 3	C) 10	D) 11					
42	What is Cow 18's current status?								
42	A) Calved	B) Dry	C) In milk	D) Left herd					
43	Which cow has the most of	desirable Estimated Relativ	e Producing Ability (ERPA)	for milk?					
43	A) 11	B) 13	C) 24	D) 34					
44	Which cow is due to calve	next?							
44	A) 7	B) 9	C) 17	D) 18					
45	Which first lactation cow calved most recently?								
40	A) 23	B) 25	C) 38	D) 40					
46	How many cows had a somatic cell score greater than 4.0 for both the current and previous month?								
40	A) 3	B) 4	C) 9	D) 10					
47	Which cow produced the	most milk on the most rece	nt test day?						
47	A) 3	B) 7	C) 24	D) 33					
48	Which cow has produced	the most pounds of protein	in their lactation to date?						
40	A) 3	B) 15	C) 16	D) 18					
49	How many cows left the h	erd this month?							
49	A) 0	B) 1	C) 4	D) 5					
50	How many times has Cow	2 been bred?							
30	A) 0	B) 2	C) 3	D) 5					