2015 Junior	Dairy Quiz Bo	wl Questions	Roun	ıd 06	
Phase B	B 5 Questions		Correct answers are worth 10		10 points each.
5 questions. team memb seconds. Pa	Answers are to er. A question of the credit may	be given by may be repea be given at t	a team captain ated only once. The discretion o	o, but ass Answer of the jud	Each team will be asked these sistance may come from any rs must be started within 20 dges. After one team has been asked the same 5 questions.
1. Which of	ne of the followi	ng is a good	source of <u>starc</u>	<u>h</u> in the	cow's diet?
a) alfalfa ha	b) corr	n grain	c) soybean n	neal	
ANS: b) cor	n grain				
2. In a forag forage?	ge analysis, wha	t is measured	d to determine	the <u>crud</u>	<u>le protein</u> content in the
a) Calcium	b) Sulf	fur c) Ni	trogen	d) Fib	er
ANS: c) Niti	rogen				
3. As of 201	0, what state ha	s the <u>highest</u>	milk production	on per c	ow?
a) Michigan	b) Wis	sconsin	c) New Mexi	ico	d) California
ANS: c) New	Mexico				
4. The duod	lenum, jejunum	and <u>ileum</u> a	re three section	ıs of the	·
a) large inte	estine	b) small into	estine	c) cow	y's reproductive tract
ANS: b) sma	all intestine				
	ne name of the <u>t</u> surface area for			vhich <u>lin</u>	e the wall of the rumen and
a) crypts	b) jejunum	c) leaves	d) papillae		

ANS: d) papillae

## Phase C 20 Questions Correct answers are worth 15 points each.

Both teams are in the room for Phase C. The first contestant to signal will answer the question within 5 seconds after being acknowledged by the moderator. Failure to do so will cost that team 10 points. Any contestant answering a question without being acknowledged by the moderator will lose 10 points. If an answer is incorrect, members of the other team will have the opportunity to answer the question without having it reread except for true/false, either or and yes or no type questions. If an answer is given in these types of questions, the question will be replaced with a tie breaker question, and given to the other team. No points are deducted for giving an incorrect answer. Team members are not allowed to discuss the answers in this phase. No partial credit is available in Phase C, except for bonus questions. If neither team can offer an answer to the question within 10 seconds, the moderator will give the answer and the question will be dropped but neither team will forfeit points.

1. In dairy cattle judging, what part are you referring to when you describe the cow as being sickle-hocked?

ANS: rear legs

- 2. In lactating dairy cows, a <u>low milk fat test</u> is an indication of a <u>low ration level</u> of:
- a) protein b) energy c) fiber

ANS: c) fiber

3. When you measure the heart girth of a dairy animal with a special tape, what are you trying to estimate?

ANS: Body weight

4. What is the name of the primary digestive process that occurs in the rumen?

ANS: Fermentation

5. In reference to DHIA records, what is significant about the factor 305 days?

ANS: 305 days is the standardized lactation length

- 6. Which of the following describes a completely hydrogenated fat that contains no double bonds?
  - a) unsaturated fat b) saturated fat c) vegetable oil

ANS: b) saturated fat

ANS: National Research Council						
8. Which of the following normally occurs first during a lactation cycle?						
a) peak feed intake b) peak milk production c) both occur at the same time						
ANS: b) peak milk production						
9. At which of the following temperatures should milk be held in the farm bulk tank?						
a) 60 degrees F b) 50 degrees F c) 38 degrees F						
ANS: c) 38 degrees F						
10. Which one of the following minerals <u>provided in excess during the dry period</u> may result in <u>milk fever</u> ?						
a) Sodium b) Selenium c) Calcium d) Phosphorous						
ANS: c) Calcium						
11. Bypass protein refers to the part of feed protein that, in the cow's rumen, is:						
a) degraded b) undegraded c) fermented to volatile fatty acids						
ANS: b) undegraded						
12. What are the basic structural components of proteins called?						
ANS: amino acids						
13. Who is the Commissioner of Agriculture for North Carolina?						
ANS: Steve Troxler						
14. What is the name of the toxic yellow pigment that can be found in cottonseed?						
ANS: Gossypol						
15. A <u>deficiency of this trace mineral</u> has been associated with <u>retained placenta in cows</u> and <u>white muscle disease in calves</u> ?						
a) potassium b) iron c) selenium d) magnesium ANS: c) selenium						

7. In reference to feeding guidelines for dairy animals, what does NRC stand for?

- 16. <u>Drought-stressed forages</u> can be <u>toxic</u> to dairy animals if they contain:
- a) high levels of protein
- b) high levels of fat
- c) high levels of nitrates

ANS: c) high levels of nitrates

- 17. What are acetate, propionate and butyrate?
- a) volatile fatty acids (VFA) produced in the rumen b) amino acids c) somatic cells

ANS: a) volatile fatty acids produced in the rumen

18. How many <u>amino acids</u> are considered to be <u>essential</u> in the dairy cow and are <u>required</u> in the diet?

ANS: 10

19. What infection causes milk somatic cell counts to increase?

ANS: Mastitis

- 20. Which of the following describes "ovulation"?
- a) parturition b) palpation c) milk ejection d) the release of an egg from a follicle

ANS: d) the release of an egg from a follicle

## **Bonus Questions** Each bonus question is worth 20 points.

Bonus questions may be earned in the toss-up round. To receive a bonus question, 3 different team members must correctly answer the toss-up questions. Bonus questions are not passed to the other team, nor are points deducted for an incomplete or incorrect answer to the question. Bonus question will be asked whenever 3 team members have answered toss-up questions correctly with the count kept individually for both teams within a match. Eligibility for bonus questions does not carry over to another match. The answers must come from the team captain but assistance can come from the other team members. Only the number or answers required by the bonus question will be accepted. Example: If the bonus has a four-part answer - the first four answers given by the team will be accepted. Answers to a bonus question must start within 20 seconds and be completed within 60 seconds.

1. What part of the alfalfa plant has the highest % digestibility?

ANS: the leaves

- 2. TDN is a common term to nutritionists. What does TDN stand for:
- a) Total Digestible Nutrients
- b) Total Dietary Nitrogen
- c) Total Daily Needs

ANS: a) Total Digestible Nutrients

- 3. When should cows with mastitis be milked?
- a) first b) last c) in any group

ANS: b) last