

**NAME:** \_\_\_\_\_

**STATE:** \_\_\_\_\_

Senior Quiz Version B

1. U.S. cattlemen produce \_\_\_\_% of the world's beef with only 7% of the world's cattle.
  - a. 7%
  - b. 10%
  - c. 20%
  - d. 35%
2. True/False: ASA is now testing for Contractual Arachnodactyly, CA.
  - a. True
  - b. False
3. What is mineral deficiency which can occur on lush, spring grass with cows in early lactation?
  - a. Selenium deficiency
  - b. Calcium deficiency
  - c. Protein deficiency
  - d. Magnesium deficiency
4. Which part of the reproductive tract of a cow is a barrier to infections and foreign material?
  - a. Uterus
  - b. Cervix
  - c. Ovary
  - d. Uterine horns
5. What is a problem resulting from well-fertilized corn or grass during drought conditions? This problem can kill livestock if they eat silage or hay from these crops.
  - a. Magnesium deficiency
  - b. Selenium deficiency
  - c. Nitrate toxicity
  - d. Iron toxicity
6. Ionophores are fed to cattle to...
  - a. Increase feed efficiency
  - b. Prevent infection
  - c. Prevent heifers from coming in heat
  - d. Decrease feed efficiency
7. Which of the following can be supplemented in beef cattle diets to extend the shelf life of final products by preventing discoloration and oxidation of the meat?
  - a. Vitamin A
  - b. Vitamin B
  - c. Vitamin E
  - d. Phosphorus

8. If you get a 66% conception rate when artificially inseminating, what portion of the herd is pregnant after two heat cycles of AI breeding?
  - a. 75%
  - b. 88%
  - c. 90%
  - d. 100%
9. A steer carcass is 780 pounds with 0.45 inch of back fat, a 10.0 square inch ribeye and a Quality Grade of average Choice? This carcass is....
  - a. Too fat
  - b. Heavy muscled
  - c. Too light muscled
  - d. Just right
10. Fat steers grazed on pasture can develop fat with a yellow tinge to it due to what compound?
  - a. Parasites
  - b. Chlorophyll
  - c. Vitamin A
  - d. Carotene
11. The official placing on a class of Simmental heifers is 1-3-4-2 with cuts of 2-3-6. Your placing of the class is 4-1-2-3. What would your score be on this class in the judging contest?
  - a. 27
  - b. 31
  - c. 35
  - d. None of the above
12. Which of these people is the head of PETA?
  - a. Ingrid Newkirk
  - b. Wayne Pacelle
  - c. Tom Vilsack
  - d. Bob McDonnell
13. Beef packers who own cattle for more than ten days prior to harvest must pay the \$2/head check off.
  - a. True
  - b. False
14. What is another name for para tuberculosis?
  - a. Brucellosis
  - b. Johne's Disease
  - c. Bangs Disease
  - d. Coccidiosis
15. A three ounce serving of beef provides nearly \_\_\_\_ % of the daily recommended value of zinc.
  - a. 13%
  - b. 23%
  - c. 34%
  - d. 38%

For Questions 16-22 use the following scenario:

You have a group of steers that have just been weaned. You will background them for 42 days, at which time they will be sold. Your system is to utilize pasture plus a grain mix fed at the rate of  $\frac{1}{2}\%$  of body weight per day.

16. If the average weight is 540 pounds, how much grain is fed to each steer for the entire 42 days?
  - a. 12.8 lbs
  - b. 113.4 lbs
  - c. 126.8 lbs
  - d. 6480 lbs
17. Your records indicate that the rate of gain on this backgrounding program is 2.6 pounds per day. How heavy will the average steer be after the 42 days?
  - a. 549.2 lbs
  - b. 649.2 lbs
  - c. 713.8 lbs
  - d. 872 lbs
18. The grain mix costs \$180 per ton, the pasture cost is 15 cents per head per day, and the total cost of all implants, dewormer, and vaccines is \$13 per head. What is the total cost for the 42-day backgrounding program per head?
  - a. 25.51
  - b. 29.51
  - c. 32.68
  - d. 47.59
19. Your neighbor does custom backgrounding. His program utilizes a total mixed ration with no pasture. Historical gains are 3.4 pounds per day. How many additional pounds does your neighbor put on one steer over the 42-day period compared to your pasture plus grain program?
  - a. 33.6 lbs
  - b. 109.2 lbs
  - c. 142.8 lbs
  - d. 159.7 lbs
20. Freshly weaned steers weighing 540 pounds have sold for \$1.28 per pound. Steers backgrounded as described above weighing 650 to 700 pounds have been sold for \$1.25 per pound. How much additional income is produced from the backgrounding program per head for a steer sold at 670 pounds?
  - a. \$146.30
  - b. \$226.40
  - c. \$691.20
  - d. \$837.50

21. Historically you have had some trouble with coccidiosis in backgrounded cattle. Cattle managed by your neighbor are fed Rumensin in the ration to help this problem. If his ration includes Rumensin at 30 grams per ton, and each calf eats 15 pounds of feed per day, what is the daily intake of Rumensin by one calf? (Answer in mg / hd / day)
- 115
  - 225
  - 345
  - 455
22. There are buyers for naturally-raised cattle. To qualify the cattle cannot have been treated with antibiotics nor can implants be used. Your neighbor's records indicate that cattle not implanted in his program gain 3.0 pounds per day. How much less will the non-implanted steers weigh at the end of the 42-day backgrounding period?
- 12.8
  - 13.9
  - 15.9
  - 16.8
23. In which compartment of a cow's digestive systems does the feed she consumes enter first?
- Liver
  - Rumen
  - Duodenum
  - Abomasum

**Match the common disease names below to match with the scientific name**

- Pinkeye**
- Mad Cow**
- Bangs**
- Johne's Disease**
- Red Nose**
- Cancer eye**

24. Brucellosis
25. Para Tuberculosis
26. Bovine Ocular Neoplasia
27. Conjunctivitis
28. Bovine Spongiform Encephalopathy
29. Infectious Bovine Rhinotracheitis

30. A cow is suffering from grass tetany. The veterinarian treats her with a bottle of liquid administered intravenously. What's in that bottle that saves the cow?
- Antibiotic
  - Magnesium
  - Calcium
  - Milk fever vaccine
31. What is a major health risk to cattle grazing straight alfalfa?
- Listeriosis
  - Footrot
  - Rickets
  - Bloat
32. If corn costs \$150/ton and you feed your steer 10 pounds of corn a day, what is the cost of the corn per day per head?
- 10 cents
  - 75 cents
  - \$7.50
  - \$10
33. \_\_\_\_\_ time is the amount of time required for the medication to be metabolized, or broken down, by the animal's body
- Immunity
  - Withdraw
  - Withholding
  - Deactivation
34. *The Register* featured an article on Simmental cattle playing a significant role in the expanding \_\_\_\_\_ cattle industry.
- Japanese
  - Chinese
  - Australian
  - Peruvian
35. True or false. ASA DNA requirements state that if any embryo calves are reported out of a dam that has not completed DNA testing, the owner will be charged a penalty fee of \$180.
- True
  - False
36. \_\_\_\_\_ is a livestock behaviorist that specializes in livestock facility layout and design to ensure safe and low stress working and slaughter facilities for cattle.
- Dr. Jerry Lipsey
  - Dr. Dan Eversole
  - Dr. Temple Grandin
  - Dr. Dave Nichols
37. True or false. USDA is considering dropping hot branding as a an official animal id method for traceability purposes.
- True
  - False
38. Which of the following is NOT recommended to avoid the transmission of Trichomoniasis?
- Rest young bulls for three months prior to reuse.
  - Be sure that only positive bulls are used as breeding bulls
  - Use only virgin bulls to breed to heifers
  - Keep virgin bulls separate from all other bulls

39. True or false. According to USDA's Food Safety and Inspection Service (FSIS), "natural" may be used on a label for meat if it does not contain any artificial flavor or flavoring, coloring ingredient, chemical preservative or any other artificial or synthetic ingredient, and the product and its ingredients are not more than minimally processed.
- True
  - False
40. True or false. The National Cattlemen's Beef Association developed the "Producer Code for Cattle Care" in 1996. The code reinforces the beef industry's strong stance against animal cruelty or neglect. It contains a comprehensive set of sound production practices and states that "persons who willfully mistreat animals will not be tolerated."
- True
  - False
41. Ultra-high stock density grazing is also referred to as
- Mob grazing
  - High rate grazing
  - Extra efficient grazing
  - Over utilization grazing
42. Ground beef is considered safe and savory when cooked to what temperature?
- 120 degrees
  - 140 degrees
  - 150 degrees
  - 160 degrees

**For Questions 43-49 please refer to page 46 in your sire summary**

- DS Six Shooter 3H**
- Ellingson Legacy M229**
- ES Dakota Blizzard SL71**
- ESN5303**

43. Which bull's daughters are expected to wean the heaviest calves?
44. Which bull would you expect to sire the smallest ribeyes?
45. True or false. Two or more of these bulls are related.
- True
  - False
46. Which of these bulls will sire the heaviest calves at birth?
47. Which of these bulls will sire the lightest calves at 205 days?
48. Which of these bulls would be least suited for use on the entire cow herd (bred both to Angus first-calf heifers and mature cows) with the portion of their daughters required to maintain herd size retained and the remaining heifers and steers put on feed and sold grade and yield?

49. Which of these bulls direct EPDs have the highest accuracy?
50. Stayability refers to the percentage of a bull's daughters that you might expect to remain in production at \_\_\_\_\_ years of age compared to the percentage producing sired by another bull.
- a. 3
  - b. 6
  - c. 8
  - d. 10