

## 2009 AJSR Senior Cattleman's Quiz

1. A heifer carcass weighs 802 pounds, has .4 inches of backfat, has a 13.1 in<sup>2</sup> ribeye and 2.5% kidney, pelvic and heart fat. What would her USDA Yield Grade be?
  - a. 1
  - b. 2
  - c. 3
  - d. 4
2. From which of the following beef wholesale cuts does the popular new "Flat Iron" steak come?
  - a. Chuck
  - b. Round
  - c. Loin
  - d. Rib
3. Which of the following classification of cows is considered to be the oldest?
  - a. "Short and Solid"
  - b. "Broken Mouth"
  - c. "Gummer"
  - d. "Downer"
4. What is meant by the term "Double Polled"?
  - a. The animal is homozygous polled
  - b. The animal has two copies of the gene for polledness
  - c. The animal is heterozygous polled
  - d. None of the above
5. "Linking SimGenetics to Commercial Cattle" is the slogan of what?
  - a. The American Simmental Association
  - b. *SimTalk* Magazine
  - c. *The Register*
  - d. *American Simbrah* Magazine

6. What is the average length of the gestation period of a cow?
  - a. 245
  - b. 360
  - c. 285
  - d. 335
  
7. Which of the following procedures are commonly used to improve the tenderness of beef?
  - a. Electro Stimulation
  - b. Aging
  - c. Injection of enzymes
  - d. All of the above

**For questions 8-14 use the following bulls from the 2009 Sire Summary**

- a. Zeis GCF Contender**
  - b. Anchor T Metro**
  - c. TJ Top Grid 110N**
  - d. WW Representative 58R**
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8. Among the purebred bulls listed, which bull should generate the most profit for a commercial Angus based herd that keeps replacement females and retains ownership on all other progeny, selling these offspring on a value based carcass grid.
  9. Which bull certainly is the best choice for a group of virgin heifers to minimize dystocia?
  10. Which bull's pedigree is 100% of foreign Simmental origin?
  11. Which bull would have a higher percentage of daughters remain in the cow herd?
  12. Between the two oldest bulls, which bull offers the most value as terminal sire?
  13. Which bull's daughters should wean the heaviest calves?
  14. Which bull should sire the highest USDA quality grading steers?

15. What is a CIDR used for?
- Dehorning
  - Fitting a steer for show
  - Estrus synchronization
  - Reviving a stillborn calf
16. Which brand location is most detrimental to the value of a beef hide for leather production?
- Hip brand
  - Shoulder brand
  - Jaw brand
  - Rib brand
17. A heifer carcass with A 40 maturity and a Moderate 20 degree of marbling would have \_\_\_\_\_ for a USDA Quality Grade.
- Low Choice
  - Average Coice
  - High Choice
  - Low Prime
18. If a sire has a Maternal Weaning Weight EPD of +28 and a Milk EPD of +8 should his Weaning Weight EPD be?
- +20
  - +40
  - +60
  - None of the above
19. What is the estimated percent of her mature weight a virgin heifer should attain before she is bred?
- 65 to 70 percent
  - 45 to 50 percent
  - 35 to 40 percent
  - 85 to 90 percent

20. Native grasses in the southeastern US are usually \_\_\_\_\_ in moisture content and therefore \_\_\_\_\_ in relative nutrient content than native grasses in the north-central US.

- a. Higher : Higher
- b. Higher : Lower
- c. Lower : Higher
- d. Lower : Lower

21. What University was instrumental in developing our new Stayability EPD?

- a. Cornell
- b. Montana State University
- c. University of Missouri
- d. Colorado State University

22. Which level of fat thickness is closest to industry ideal for harvest steers?

- a. .20 inches
- b. .40 inches
- c. .75 inches
- d. 1.0 inches

Using the following breeds to answer questions 23 – 31.

- a. Simmental
- b. Angus
- c. Hereford
- d. Brahman

23. Which is considered a Bos Indicus breed?

24. Which breed offers the highest marbling genetics?

25. Which breed on average is the lowest for milk production?

26. Which breed is a part of the breed makeup of Santa Gertrudis?

27. Which breed association has long been headquartered in Kansas City, Missouri?

28. According to the latest USDA Meat Animal Evaluation Center report, which breed has the highest level of maternal calving ease among all breeds tested.

29. Which breed requires all animals to be homozygous polled?

30. Which is considered a Continental breed?
31. Which breed on average would have the greatest Rib Eye Area at any given carcass weight?
32. The heart is made up primarily of \_\_\_\_\_ muscle fibers.
- Smooth
  - Striated
  - Skeletal
  - None of the above
33. The Secretary of Agriculture and USDA are currently developing a plan to require mandatory animal identification and traceability for all beef cattle and for other livestock species.
- True
  - False
34. According to BQA recommendations, an injection that is to be administered IM might correctly be given where?
- Under the skin of the neck
  - In the fleshy part of the hip
  - In the rear of the thigh
  - None of the above
35. What are the two primary factors in the USDA system of grading feeder calves?
- Age and weight
  - Frame and muscle score
  - Size and color
  - None of the above
36. How long after an injection of prostaglandin in a standard estrus synchronization program might you expect to see the first significant number of females in heat?
- 48 hours
  - 60 hours
  - 72 hours
  - 1 week

37. Which of the following is not one of the largest cattle auction marketers in the US?
- Superior Livestock Auctions
  - Oklahoma City Livestock Market
  - Joplin Regional Stockyards
  - Kansas City Union Stockyards
38. Which of the following USDA Quality Grades is used primarily for cow carcasses?
- Standard
  - Commercial
  - Select
  - Hard Boned
39. Which of the following is the best selection tool to use to improve the growth genetics of a herd?
- Used growth EPDs (Weaning Weight EPD, Yearling Weight EPD)
  - Selected for increased frame score
  - Select for the highest actual 205 day weights
  - Select for maximum maternal milk production
40. If you mate a heterozygous polled bull to a heterozygous polled cow, what is the probability that you will have a homozygous polled offspring?
- .25
  - .50
  - 1.0
  - None of the above
41. When you mate a  $\frac{3}{4}$  Simmental,  $\frac{1}{4}$  Brahman to a Purebred Simbrah what are the resulting offspring?
- Purebred Simbrah
  - $\frac{11}{16}$  Simmental x  $\frac{5}{16}$  Brahman
  - American Breed Composites
  - All of the above

42. This serious viral cattle disease is usually classified as either Type I or Type II and can cause everything from diarrhea and death to reduced fertility and chronic weight loss.
- Bovine Parainfluenza
  - BVD
  - Parkeratosis
  - Shafer's Syndrome
43. Milk EPD is expressed in which of the following ways?
- Pounds of milk produced per day
  - Pounds of milk produced per lactation
  - Kilograms of milk produced per lactation
  - None of the above
44. Which of the following traits is not included in the All Purpose Index EPD?
- Calving Ease EPD
  - Mature Weight EPD
  - Marbling EPD
  - Tenderness EPD

**For the following questions 45-50 use the following Simbrah bulls found in the 2009 Sire Summary.**

- JHC Cattle King**
  - LMC Authority 5L-100**
  - 314M**
  - LMC Johnnie Walker 5R179**
45. Which bull should add the most ribeye area to a group of light muscled cows?
46. Which bull is in the 25% percentile of Simbrahs for Milk EPD?
47. Which bull appears to have tremendous terminal value?
48. Which bull is a percentage Simbrah?
49. Which is the scurred bull?
50. Which bull has been DNA parentally confirmed to both parents?

51. Stayability EPD 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. 8
- c. 6
- d. 5

52. Which of the following products would be most likely to contain significant levels of food borne pathogens?

- a. Uncooked hamburger
- b. Uncooked chuck roast
- c. Vacuum packaged brisket
- d. Packaged beef salami

53. How often each year is *American Simbrah* magazine published?

- a. Once
- b. Twice
- c. Quarterly
- d. Monthly

54. Simmental is to SimAngus as Gelbvieh is to \_\_\_\_\_.

- a. Balancer
- b. Lim Flex
- c. Gelbray
- d. Mainetainer

55. What state registers the most Simbrah cattle with the ASA?

- a. Florida
- b. Alabama
- c. Louisiana
- d. Texas

56. Cereal grains such as corn, barley, wheat, and grain sorghum are primarily used in cattle diets because they provide high levels of \_\_\_\_\_.

- a. Carbohydrate
- b. Protein
- c. Fat
- d. Fiber

57. In order for a Simbrah sire to be superior to 80% of other Simbrah sires for Marbling EPD, his Marbling EPD must be at least \_\_\_\_\_.

- a. 0.0
- b. -.04
- c. +.17
- d. +.11

58. What is the recommended age for calving first-calf heifers to increase total lifetime productivity?

- a. 20 months
- b. 30 months
- c. 24 months
- d. 36 months

59. If you mate a registered  $\frac{3}{4}$  Brahman x  $\frac{1}{4}$  Simmental bull to a registered purebred Simmental cow, you will make an animal that is eligible to be registered as a Simbrah.

- a. True
- b. False

60. *Bos Taurus* cows have greater maternal calving ease capabilities than *Bos Indicus* cows.

- a. True
- b. False

61. An average EPD Simmental Bull +.5 pounds of Birth Weight EPD. An average Simbrah Bull in the sire summary has a Birth Weight EPD of +2.9 pounds. Which of the following statements is true?
- The EPDs on these breed average bulls are not directly comparable.
  - On a set of Hereford cows an average Simbrah bull will probably sire less calving difficulty due to better calf shape.
  - Heterosis increase the average birth weight of calves above what you might expect based on the EPDs of the parents.
  - You cannot breed an average Birth Weight EPD Simbrah bull to a purebred Simmental cow for fear of calving difficulty.
62. The official placing of a judging class is 2-3-1-4 and the cuts are 3-5-2. If your placing is 1-4-2-3, what should your score be?
- 30
  - 42
  - 24
  - None of the above
63. If you were buying an all-purpose-type sire, how much more is Zeis GCF Contender worth compared to WW Representative 58R if both bulls are exposed to 50 cows over 4 years?
- \$5700
  - \$3600
  - \$22800
  - \$900
64. Which of the following is a reasonable dry matter feed conversion (feed to gain ratio) you might expect to see reported for a pen of Simmental crossbred steers that went on feed at 700 lbs. and finished at 1,300 lbs.
- 1:8
  - 2.5:1
  - 4:1
  - 6:5:1
65. Weaning weight is usually considered what kind of trait?
- Quantitative
  - Qualitative
  - Congenital
  - Lowly heritable

66. The genetic defect TH or Tibial Hemimelia is found in highest frequency in what breed of cattle?
- Chianina
  - Shorthorn
  - Gelbvieh
  - Simmental
67. What does the American Simmental Association acronym “THE” represent?
- Top Head Evaluation
  - Total Herd Evaluation
  - Total Herd Enrollment
  - Top Herd Evaluation
68. What is the earliest date that an experienced palpator might be able to detect pregnancy?
- 60 days
  - 30 days
  - 45 days
  - 90 days
69. What virus causes cattle to perform at less than their optimum, including potential health and reproductive issues, and will be tested for at the AJSA National Classic this summer?
- Trichomoniasis
  - Bovine Viral Diarrhea
  - Bovine Parainfluenza
  - Black Leg
70. What is the correct order of a ruminant’s four stomach chambers, from first to last in the digestive process?
- Rumen, Reticulum, Abomasum, Omasum
  - Rumen, Reticulum, Omasum, Abomasum
  - Omasum, Abomasum, Rumen, Reticulum
  - None of the above