

## 2019 TJSSA STATE FUTURITY

### SENIOR CATTLEMEN'S QUIZ

1. Which fly plays a pivotal role in spreading the bacteria *Moraxella bovis* to cattle?
  - a. Horn fly
  - b. Stable fly
  - c. Horse fly
  - d. Face fly
2. Who is the USDA's Secretary of Agriculture?
  - a. Mike Pence
  - b. Sonny Perdue
  - c. Nikki Haley
  - d. Greg Abbott
3. Which system is the collection of glands that produce hormones that regulate metabolism, growth and development, tissue function, sexual function, reproduction, and sleep?
  - a. Endocrine
  - b. Olfactory
  - c. Lymphatic
  - d. Nervous
4. What is the year-letter designation for 2020?
  - a. F
  - b. G
  - c. H
  - d. J
5. Who is the Chairman of the American Simmental Association's Board of Trustees?
  - a. Wade Shafer
  - b. Gordon Hodges
  - c. Fred Scheutze
  - d. Erika Kenner
6. Which segment of the beef industry buys loads of weaned calves and backgrounds them on a high roughage diet?
  - a. Commercial Cow/Calf
  - b. Stocker
  - c. Feeder
  - d. Seedstock
7. After artificial insemination, cows should be transported within how many days after AI to minimize early embryonic loss from stress?
  - a. 4
  - b. 14
  - c. 20
  - d. 32

8. Decotmax, Valbazen, Safeguard, and Cydectin, are products classified as:
  - a. Antibiotics
  - b. Vaccines
  - c. Dewormers
  - d. Ionophores
9. Which symbiotic relationship is described as only one species benefitting while the other is neither helped nor harmed?
  - a. Commensalism
  - b. Mutualism
  - c. Parasitism
  - d. Ectosymbiosis
10. What are the symptoms of the nutritional disorder acidosis?
  - a. Nervousness, muscle twitching, staggers, and muscle spasms
  - b. Reduced feed intake, lameness, and decreased feed efficiency
  - c. Straining to urinate, blood-tinged urine, and signs of extreme pain
  - d. Kicking at belly, distended left side, and absence of belching
11. U.S. beef recently gained full access to its largest export market because of a ban lifted on age restriction. Which country is this?
  - a. China
  - b. Australia
  - c. Thailand
  - d. Japan
12. The tri-tip steak comes from which primal on a beef carcass?
  - a. Rib
  - b. Round
  - c. Chuck
  - d. Sirloin
13. Genomic testing adds accuracy to low accuracy cattle, and will eventually replace reporting phenotypic data.
  - a. True
  - b. False
14. The average American is \_\_\_ generations removed from working on a farm.
  - a. One
  - b. Three
  - c. Five
  - d. Seven
15. What is the name of the American Simmental Association's cow inventory-based program?
  - a. Whole Herd Reporting
  - b. Breed Plan
  - c. Total Herd Enrollment
  - d. Simmental Herd Improvement Record

16. Which factor is not used to determine USDA Yield Grade?
  - a. Age
  - b. Ribeye area
  - c. Kidney, pelvic, and heart fat
  - d. Backfat
17. Where is the American Simmental Association's 2019 Fall Focus being held?
  - a. Bozeman, Montana
  - b. Fort Worth, Texas
  - c. Louisville, Kentucky
  - d. Manhattan, Kansas
18. Which disease is the inflammation and infection of the seminal vesicles in the male reproductive tract?
  - a. Trichomoniasis
  - b. Vesiculitis
  - c. Endometriosis
  - d. Leptospirosis
19. Coat color is a \_\_\_\_\_ trait.
  - a. Qualitative
  - b. Quantitative
  - c. Congenital
  - d. Additive gene effect
20. What is an adequate crude protein percent of dry matter intake for a beef cow at calving?
  - a. 5%
  - b. 9%
  - c. 14%
  - d. 20%
21. The U.S. beef industry is in a contraction phase.
  - a. True
  - b. False
  - c. Neutral
22. Which breed of cattle is best suited in a terminal sire scenario, where red meat yield, muscling, and pounds of calf weaned is desired in the calf crop.
  - a. Charolais
  - b. Dexter
  - c. Hereford
  - d. Shorthorn
23. What is the name of the International Genetic Solutions tool that provides third-party validation of predicted feedlot success of feeder calves at no cost to the producer?
  - a. All Purpose Index
  - b. Top Dollar Simmental
  - c. Simmental Link
  - d. Feeder Profit Calculator

24. Which hormone is used to regress the corpus luteum and induce estrus in 2-5 days after injection?
- Progesterone
  - Prostaglandin
  - GnRH
  - Oxytocin
25. What percentage of beef farms and ranches are family-owned or individually-operated?
- 26%
  - 55%
  - 78%
  - 91%
26. What term refers to the presence of veterinary drugs or pesticides in meat that are usually measured in parts per million or parts per billion?
- Resistance
  - Withdrawal
  - Residue
  - Adulterate
27. Which two traits have a negative genetic correlation with each other?
- Birth weight and weaning weight
  - Yearling weight and mature size
  - Calving ease direct and birth weight
  - Milk production and total energy intake
28. Erythrocyte is another term for:
- Platelets
  - Plasma
  - White blood cell
  - Red blood cell
29. Beef Quality Assurance recommends castrating bull calves before the age of \_\_\_ days or at first available handling.
- 90
  - 120
  - 150
  - 205
30. Which breed is of the dairy biological type?
- Angus
  - Senepol
  - Brown Swiss
  - Romagnola
31. Which product is used to treat foot rot in cattle?
- Lutalyse
  - Oxytetracycline
  - Dectomax
  - Ralgro

32. Feedlot cattle typically have a feed conversion ratio of \_\_\_\_.
- 3:1
  - 6:1
  - 10:1
  - 12:1
33. The polled gene is dominant to the horned gene.
- True
  - False
34. From which mating would the most heterosis be expressed in the offspring?
- Angus x Simmental
  - SimAngus x SimAngus
  - Simmental x SimAngus
  - Simmental x Simmental
35. Soybean meal is used in a finishing ration as a source of \_\_\_\_ in the diet.
- Fat
  - Mineral
  - Carbohydrates
  - Protein

**For questions 36-45 refer to the reference sheets provided on the following bulls:**

- BGIBBS 5381C AJAX**
- CDI INNOVATOR 325D**
- LCDR MAKIN' WAVES 711E**
- TJ FRANCHISE 451D**
- TJ POWER GRID 363Y**

36. Which bull is the result of the superovulation of a donor cow?
37. Which bull is the least desirable for use on virgin heifers?
38. Of the bulls that can sire purebred progeny, which bull offers the most improvement in marbling?
39. Which bull's dam is a purebred Angus?
40. Which bull is best suited for a producer that sells the calf crop at weaning?
41. Which bull has the most proven EPD profile?
42. For the producer that retains ownership of his calves and sells them on a grid, which bull offers the most profit potential?
43. Which bull's first-calving daughters would you expect the most assisted births with?

44. Which bull's daughters have the least probability of staying in the herd past six years of age?
45. Which bull best fits the description of a curve bender?
46. Which EPD is defined as percent of unassisted births when used on heifers?
- Birth weight
  - Maternal Calving Ease
  - Calving ease
  - Stayability
47. A genomic test on a SimGenetics animal yields the progeny equivalent of how many weaning weight records?
- 11
  - 22
  - 43
  - 62
48. A Punnett Square cannot be used to predict progeny outcomes with which trait?
- Marbling
  - Horned/Polled
  - Coat color
  - Single recessive congenital defects
49. As progeny records of a sire increases his EPD percentile rank will increase.
- True
  - False
50. Which type of breeding system has the most detrimental effect on reproductive, fitness, and longevity traits?
- Outcrossing
  - Crossbreeding
  - Straightbreeding
  - Linebreeding