

2021 TJSSA State Futurity

Collegiate Cattlemen's Quiz

1. What is the street address for the American Simmental Association?
 - a. Simmental Avenue
 - b. One Genetics Way
 - c. One Simmental Way
 - d. IGS Way
2. Undulant fever is another name for which disease?
 - a. Brucellosis
 - b. Anaplasmosis
 - c. Trichomoniasis
 - d. Blackleg
3. Which measurement determines preliminary yield grade?
 - a. Carcass weight
 - b. Percent kidney, pelvic, and heart fat
 - c. Ribeye area
 - d. 12th rib fat thickness
4. What is the year-letter designation for 2022?
 - a. I
 - b. J
 - c. K
 - d. L
5. Which of the following is a gamete?
 - a. Blood cell
 - b. Sperm cell
 - c. Cytoplasm
 - d. Mitochondria
6. Which breed type is most desired by dairy producers creating beef on dairy crosses?
 - a. Brahman
 - b. Gelbvieh
 - c. Charolais
 - d. SimAngus
7. What is the recent average carcass weight of a dressed steer?
 - a. 625
 - b. 750
 - c. 900
 - d. 1100
8. The vast majority of cattle harvested in the U.S. are given which quality grade?
 - a. Prime
 - b. Choice
 - c. Select
 - d. Standard

9. To be registered purebred Simmental with the ASA, an animal must have at least ___ Simmental breeding.
 - a. 3/4
 - b. 7/8
 - c. 15/16
 - d. ASA does not allow upgrading Simmental genetics
10. Grass tetany is caused by low blood levels of which mineral?
 - a. Calcium
 - b. Phosphorous
 - c. Manganese
 - d. Magnesium
11. Vector-borne diseases are transmitted by:
 - a. Respiratory droplets
 - b. Toxic plants
 - c. Parasites
 - d. Manure
12. Colostrum stimulates and activates which aspect of a newborn calf?
 - a. Immune system
 - b. Respiratory system
 - c. Nervous system
 - d. Endocrine system
13. Which genotype represents a homozygous recessive trait?
 - a. Aa
 - b. aa
 - c. AA
 - d. AB
14. What is the common term for a widespread outbreak of Bovine Respiratory Disease Complex?
 - a. Weaner fever
 - b. Sale barn sickness
 - c. Shipping fever
 - d. Bovine flu
15. Which stomach of the ruminant produces hydrochloric acid, digestive enzymes, and prepares proteins for absorption in the intestines?
 - a. Abomasum
 - b. Omasum
 - c. Rumen
 - d. Reticulum
16. The American Simmental Association was formed in _____.
 - a. 1857
 - b. 1903
 - c. 1968
 - d. 1982

17. Which hormone is released in large amounts during labor and facilitates in birth, maternal bonding, and milk let-down?
 - a. Estrogen
 - b. Progesterone
 - c. Dopamine
 - d. Oxytocin
18. Which country imported the most beef into the U.S. in 2020?
 - a. Australia
 - b. Canada
 - c. Mexico
 - d. Brazil
19. What is the average age of the U.S. cattle producer?
 - a. 33
 - b. 45
 - c. 58
 - d. 72
20. Proteins typically contain ___% nitrogen.
 - a. 16
 - b. 24
 - c. 33
 - d. 50
21. Pricing cattle on a grade and yield basis is called _____.
 - a. Dressed weight pricing
 - b. Live cattle pricing
 - c. Grid pricing
 - d. Terminal pricing
22. Which antibiotic requires a prescription from a veterinarian?
 - a. Oxytetracycline
 - b. Baytril
 - c. Penicillin
 - d. All antibiotics require a veterinary prescription
23. Which of the following is an environmental factor that affects dystocia?
 - a. Calf sex
 - b. Heterosis
 - c. Length of gestation
 - d. Nutrition of dam
24. Who is the USDA's Secretary of Agriculture?
 - a. Tom Vilsack
 - b. Sid Miller
 - c. Sonny Perdue
 - d. Mike Pence

25. Consumers of beef have voiced _____ as their biggest concern.
- Percent grading choice
 - Retail cuts too large
 - Sustainability
 - Average age of cattle producer
26. Which term describes mass treating a group of cattle with antibiotics that are of high risk of contracting Bovine Respiratory Disease Complex?
- Preconditioning
 - Vaccination
 - Metaphylaxis
 - Pathogenesis
27. This type of grass, when infected with endophyte fungus diminishes growth, health, and reproduction in cattle by squeezing off the blood supply to extremities.
- Bermuda
 - Klein
 - Rye
 - Fescue
28. What term feedlots use for the per head daily fee for customer-owned cattle?
- Yardage
 - Rent
 - Stocking rate
 - Animal unit
29. Heterosis has the greatest effect on lowly heritable traits such as:
- Growth
 - Reproductive
 - Carcass
 - Qualitative
30. In terms of grading beef carcasses A, B, C, D, and E are scores for:
- Marbling
 - Maturity
 - Yield
 - Lean tissue color
31. Cattle have a _____ placenta.
- Cotyledonary
 - Zonary
 - Diffuse
 - Discoidal
32. Which step of mammal spermatozoa maturation occurs in the female reproductive tract?
- Involution
 - Meiosis
 - Capacitation
 - Spermatocytation

33. Cattle that are being finished for beef are on a high ____ diet.
- Roughage
 - Energy
 - Fiber
 - Protein
34. What would be an average KPH% in a beef carcass?
- 3
 - 7
 - 12
 - 18
35. A three ounce serving of beef provides ___ grams of protein.
- 10
 - 15
 - 25
 - 50
36. Who is the chairman of the ASA Board of Trustees?
- Barry Wesner
 - Tim Curran
 - Wade Shafer
 - Randy Moody
37. Which hormone is not produced by the pituitary gland?
- Follicle-stimulating Hormone
 - Luteinizing Hormone
 - Progesterone
 - Oxytocin
38. Which of the following is not a breed of *Bos Taurus* cattle?
- Simmental
 - Hereford
 - Nelore
 - Corriente
39. Most of the country's weaned calves are marketed via:
- Video auction
 - Auction barn
 - Retained ownership
 - Forward contract
40. At what age should a heifer be bred in order to calve at 24 months old?
- 9 months
 - 12 months
 - 15 months
 - 18 months

Tie Breaker Questions

41. A killed vaccine delivers a faster immune response than a modified-live vaccine.
 - a. True
 - b. False
42. Which pair of chromosomes represents a male?
 - a. XX
 - b. YY
 - c. XY
 - d. YX
43. Colostrum is high in _____ to protect a newborn calf from invading organisms.
 - a. Antibodies
 - b. Antibiotics
 - c. Beta-agonists
 - d. Calcium
44. With the advancement of genomic testing, continued collection of phenotypic records is less important for genetic predictions.
 - a. True
 - b. False
45. A subscription to the *SimTalk* magazine is free.
 - a. True
 - b. False