

2019 TJSSA STATE FUTURITY

JUNIOR CATTLEMEN'S QUIZ

1. What is the name of the famed Simmental bull that was imported into North America by Travers Smith in 1967?
 - a. Signal
 - b. Galant
 - c. Broker
 - d. Parisien
2. What is the average length of the estrous cycle in beef cows?
 - a. 14 days
 - b. 21 days
 - c. 30 days
 - d. 35 days
3. Which nutrient is muscle primarily made up of?
 - a. Fat
 - b. Carbohydrates
 - c. Protein
 - d. Mineral
4. Weaning weights in cattle are adjusted to how many days of age?
 - a. 180
 - b. 205
 - c. 255
 - d. 300
5. What is the slogan used by the American Simmental Association's advertising and logos?
 - a. Profit Through Science
 - b. Breed Them All Simmental
 - c. The Business Breed
 - d. Ranch Tested. Rancher Trusted.
6. What female reproductive organ nourishes the fetus during pregnancy?
 - a. Ovary
 - b. Fallopian Tube
 - c. Cervix
 - d. Uterus
7. Of the ruminants four stomachs, which one is the largest?
 - a. Abomasum
 - b. Rumen
 - c. Omasum
 - d. Reticulum

8. A castrated male bovine is known by which term?
 - a. Heifer
 - b. Cow
 - c. Steer
 - d. Bull
9. The act of producing milk is also known by what term?
 - a. Lactating
 - b. Gestating
 - c. Colostrum
 - d. Mastication
10. Simmental cattle are among the top 5 most popular breeds in the United States.
 - a. True
 - b. False
11. Where is the 2019 AJSA National Classic being held?
 - a. Bozeman, Montana
 - b. Louisville, Kentucky
 - c. College Station, Texas
 - d. Des Moines, Iowa
12. If a homozygous polled bull is mated to 100 horned cows, how many of the progeny would be horned?
 - a. 0
 - b. 50
 - c. 75
 - d. 100
13. How much Simmental is in a purebred Simbrah?
 - a. 1/4
 - b. 1/2
 - c. 5/8
 - d. 3/4
14. Which method of needle injection causes the most damage to muscle tissue?
 - a. Intramuscular
 - b. Subcutaneous
 - c. Intravenous
 - d. All cause the same damage
15. Which hormone is released by the corpus luteum on the ovary and is responsible for maintaining the early stages of pregnancy?
 - a. Testosterone
 - b. Estrogen
 - c. Oxytocin
 - d. Progesterone

16. More cattle become unsound because of being post-legged than sickle-hocked.
 - a. True
 - b. False
17. Which breed of cattle is classified as of British origin?
 - a. Beefmaster
 - b. Nelore
 - c. Hereford
 - d. Simmental
18. Which feedstuff is a high source of energy in a beef cattle ration?
 - a. Alfalfa
 - b. Corn
 - c. Soybean meal
 - d. Cottonseed hulls
19. Which parent determines the sex of offspring at fertilization?
 - a. Dam
 - b. Sire
 - c. Neither
20. Which of the following is an economic selection index reported by the American Simmental Association?
 - a. All Purpose
 - b. Maternal
 - c. Energy
 - d. \$ Beef
21. Which EPD offers the best indication of how easy a bull's progeny will be born?
 - a. Birth Weight
 - b. Calving Ease
 - c. Maternal Calving Ease
 - d. All Purpose Index
22. Using DNA for genomic testing increases the _____ of an EPD.
 - a. Percentile rank
 - b. Efficiency
 - c. Accuracy
 - d. Difference
23. What is the name of the American Simmental Association's database that includes over 17 million cattle, the largest multi-breed genetic evaluation system in the world?
 - a. Simmental Genetics, Inc.
 - b. Breed Plan
 - c. International Genetic Solutions
 - d. Collaborative Partners Evaluation

24. Expected Progeny Differences (EPDs) predict:
- a. Net dollars returned per cow exposed
 - b. Inheritance of chromosomes from sire and dam
 - c. Additive gene effects from heterosis
 - d. Estimate of how a cow or bull's future progeny will perform, on average, for a given trait compared to another animal's future progeny
25. Which EPD is the best indicator of USDA Quality Grade in cattle?
- a. Weaning Weight
 - b. Marbling
 - c. Yield Grade
 - d. Shear Force