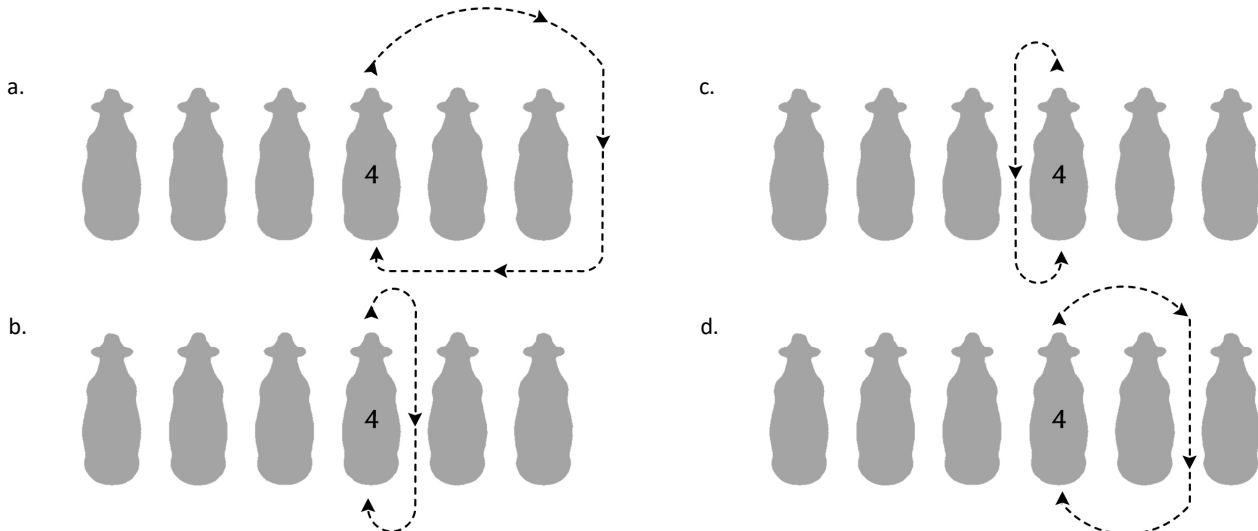


# 2022 TJSSA State Futurity Cattlemen's Quiz Junior Division

You have 60 minutes to complete this quiz. Questions 31 through 35 are tiebreaker questions. Further ties will be broken by order of finish.  
For each question, choose the best answer.

- What is dystocia?
  - A common cattle respiratory disease
  - Calving difficulty
  - A liquid feed additive
  - The medical name for foot rot
- Which USDA grade is awarded to carcasses with the highest degree of marbling?
  - USDA Yield Grade 1
  - USDA Yield Grade 5
  - USDA Prime
  - USDA Standard
- Which of the following is not an example of a Continental breed?
  - Simmental
  - Maine-Anjou
  - Charolais
  - Beefmaster
- Refer to the image to the right.  
What is this product primarily used for?
  - Heat synchronization
  - Treating respiratory disease
  - Inducing labor
  - Brucellosis vaccination
- What is the most common method of pregnancy testing in beef cattle?
  - Ultrasounding
  - Blood testing
  - Urine testing
  - Rectal palpation
- What type of cattle are most likely to be Pulmonary Arterial Pressure (PAP) tested?
  - Yearling cattle in high elevation (over 5000 feet)
  - Mature cattle in high elevation (over 5000 feet)
  - Yearling cattle in hot climates (frequently over 90° F)
  - Mature cattle in hot climates (frequently over 90° F)
- During a showmanship class, you need to reposition your animal in the same spot. What is the proper way to do so?

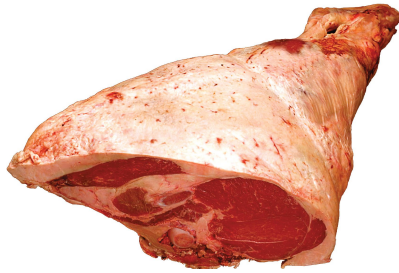


8. Which current TJSSA Board member is running for the AJSA Board of Trustees in 2022?
- Ryleigh Whitaker
  - Jake Williams
  - Kayla Sansom
  - Hallie Hackett

9. A \_\_\_\_\_ is commonly used in heat synchronization protocols.
- CIDR
  - SEDR
  - cedar
  - seeder

10. Which of these wholesale cuts is the most valuable?  
*Images taken from beefitswhatsfordinner.com. Not to scale.*

a.



b.



c.



d.



11. When twin calves are born of the opposite sex, it is common for one of them to be infertile. The infertile calf is known as a freemartin. When this happens, which calf is the freemartin?
- Bull
  - Heifer
  - The first calf born
  - The second calf born
12. According to the most recent Census of Agriculture, what is the average beef cow herd size in the United States?
- 64 head
  - 54 head
  - 44 head
  - 34 head
13. What is the common name of the medical condition that occurs when a beef animal ingests a sharp or pointy metal object that later pierces the reticulum?
- Shingles
  - Puncture Gut
  - Rickets
  - Hardware
14. Your veterinarian performs a Breeding Soundness Exam (BSE) on your group of yearling sale bulls. When examining the semen sample from Lot 11, she finds that 50-55% of the sperm cells are moving and about 60% of the cells are normally shaped. What are the results of his BSE?
- He fails due to inadequate morphology.
  - He fails due to inadequate motility.
  - He fails due to inadequate libido.
  - He passes.

15. Your Simmental show heifer was successfully bred on May 2. Approximately when should you expect her to calve?
- January 24
  - February 9
  - February 24
  - March 9

16. Refer to the image to the right.

This type of injection often involves tenting of the skin.

What type of injection is it?

- Intramuscular (IM)
  - Intravenous (IV)
  - Intradermal (ID)
  - Subcutaneous (SubQ)
17. Cattle exposed to direct sunlight are rarely deficient in which vitamin?

- Vitamin A
- Vitamin C
- Vitamin D
- Vitamin K

18. What is the most common sign of a nutritional problem within the herd?

- Weight loss
- Hoof problems
- Open cows
- Sick calves

19. As long as it is stored and handled properly, how long can frozen semen be stored?

- 2 to 5 years
- 5 to 10 years
- 10 to 20 years
- Forever

20. Some beef producers, especially those with a dairy background, might say that a cow is "dry." What do they mean?

- She is not lactating.
- She is showing signs of dehydration.
- They have tried to flush her, but she isn't making any usable embryos.
- She is no longer able to produce a calf.

21. What is the most important nutrient in a beef animal's diet?

- Grain
- Hay/Grass
- Water
- Salt

22. What is the theme of the 2022 AJSA National Classic?

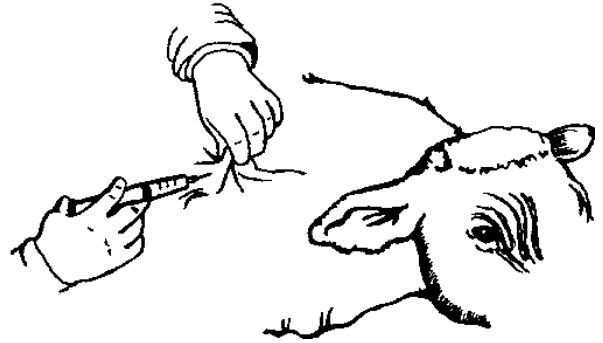
- All Aboard the Simmental Express
- Simmental Summer
- The Grandest Show on Earth
- Sim-STYLE

23. When an animal is evaluated from hooks to pins, what part of its phenotype is being studied?

- Shoulder angle
- Rear leg shape and set
- Hip structure
- Pelvic width

24. What are the two primary types of cattle vaccine?

- Intravenous and Intramuscular
- 5-Way and 7-Way
- Respiratory and Clostridial
- Modified Live and Killed



25. Which of the following is not a common sign of heat stress in beef cattle?

- a. Increased feed intake
- b. Rapid breathing
- c. Unwillingness to lie down
- d. Drooling

26. Refer to the image to the right.

What is this tool used for?

- a. Fencing
- b. Castration
- c. Tissue sampling
- d. Hoof trimming



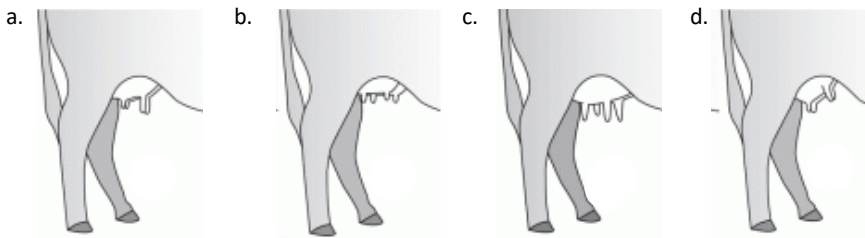
27. Which of the following feedstuffs is highest in energy?

- a. Rolled oats
- b. Winning Fill®
- c. Cracked corn
- d. Soybean meal

28. What is the common name for the fat cover on a market steer?

- a. Marbling
- b. Finish
- c. Seam Fat
- d. Prime

29. Which of these udders is considered the most ideal?



30. Which of the following statements regarding gestation length is true?

- a. Cows carrying AI calves tend to have slightly longer gestations compared to those carrying ET calves.
- b. Cows carrying ET calves tend to have slightly longer gestations compared to those carrying AI calves.
- c. Cows carrying heifer calves tend to have slightly longer gestations compared to those carrying bull calves.
- d. Cows carrying bull calves tend to have slightly longer gestations compared to those carrying heifer calves.

## TIEBREAKER QUESTIONS

Questions 31 through 35 are tiebreaker questions only.

31. According to the March 2021 Power of Meat report from the Food Industry Association, what percentage of American households purchase real meat?

- a. 98.5%
- b. 93.5%
- c. 88.5%
- d. 78.5%

32. When assisting a birth on a calf with an anterior presentation, what is the best way to pull calf through a small pelvic opening?

- a. With equal pressure, pull both front legs until the shoulders of the calf pass through the birth canal.
- b. Reposition the calf until the cow is able to deliver it herself.
- c. Pull alternately on each front leg, allowing the shoulders to pass through the birth canal separately.
- d. Call your veterinarian to perform a C-section.

33. In 2021, US beef exports totaled more than \$10 billion for the first time. Exports to three individual nations reached \$2 billion each. Which of the following was not one of them?
- a. Japan
  - b. Mexico
  - c. South Korea
  - d. China
34. Which of the following is not considered an effective way to stimulate a newborn calf's breathing?
- a. Tickle or scratch the inside of the calf's nostrils with a clean piece of straw, causing the calf to cough and take a breath.
  - b. Splash cold water over the calf's head, creating a natural reflex to shake its head and take a breath.
  - c. Place the calf in recovery position – lying upright with its head and neck forward – to allow maximum airflow to the lungs.
  - d. Hold or swing the calf by its hind legs to drain any mucus or fluid from its lungs and airways.
35. According to studies, when do most cows show heat?
- a. 6 pm to Midnight
  - b. Midnight to 6 am
  - c. 6 am to Noon
  - d. Noon to 6 pm