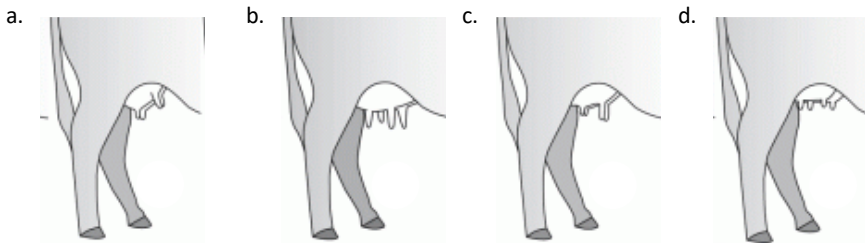


**2025 TJSSA State Futurity  
Cattlemen's Quiz  
Junior Division**

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.

1. By definition, when does a heifer become a cow?
  - a. When she is bred for the first time
  - b. When her first calf is born
  - c. When her first calf is weaned
  - d. When her second calf is born
  
2. During which season of the year do cattle drink the most water?
  - a. Winter
  - b. Spring
  - c. Summer
  - d. Fall
  
3. What is the most effective method of getting your animal to quickly stop correctly in the show ring?
  - a. Practice often at home without using a show stick to set the feet.
  - b. Rely on the show ring assistants to help stop your animal.
  - c. When practicing, set the feet with a show stick then reward the animal by scratching its brisket.
  - d. Firmly press the show halter backwards to signal to the animal that it is time to stop.
  
4. Each year, beef producers remove animals from their herds based on factors like poor udder quality, structural soundness problems, old age and more. What is the proper term for this?
  - a. Culling
  - b. Dispersing
  - c. Shipping
  - d. Replacing

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



6. In embryo transfer, what is the correct term for the production of a greater than usual number of eggs available for fertilization?
  - a. Hyperovulation
  - b. Superovulation
  - c. Ultraovulation
  - d. Extraovulation
  
7. According to BQA guidelines, which method of administering drugs is the most likely to cause tissue damage and should be avoided whenever possible?
  - a. Intramuscular (IM)
  - b. Intravenous (IV)
  - c. Subcutaneous (Sub-Q)
  - d. Pneumatic (PN)
  
8. Which of the ruminant stomach compartments is sometimes called the hardware stomach due to its ability to catch foreign objects and prevent them from traveling further into the digestive tract?
  - a. Abomasum
  - b. Omasum
  - c. Reticulum
  - d. Rumen

9. What is the common name for an IVF collection facility that is not owned by the company performing the lab work?
  - a. Franchise
  - b. Branch
  - c. Cooperator
  - d. Satellite
10. You successfully AI'd your fall-born Simmental show heifer on December 26. What is her approximate due date?
  - a. September 19
  - b. October 5
  - c. October 19
  - d. November 5
11. In general, what does it mean when an animal is described as *bigger pinned*?
  - a. That animal has more hip width than what it is being compared to.
  - b. That animal has more rib shape than what it is being compared to.
  - c. That animal has more foot size than what it is being compared to.
  - d. That animal has a larger frame score than what it is being compared to.
12. Where is the 2025 AJSA National Classic being held?
  - a. Grand Island, Nebraska
  - b. Springfield, Missouri
  - c. Louisville, Kentucky
  - d. Madison, Wisconsin
13. In general, which of the following is true about heifers on feed when compared to steers?
  - a. On average, the heifers will have more backfat at finish.
  - b. On average, the heifers will require fewer days on feed to reach finish.
  - c. On average, the heifers will finish at lighter weights.
  - d. On average, the heifers will produce a higher percentage of USDA Choice or better carcasses.
14. In order to maximize her value, approximately how often should a cow produce a live calf?
  - a. Every 9 months
  - b. Every 12 months
  - c. Every 18 months
  - d. Every 24 months

15. *Refer to the image to the right.*  
This breed of cattle, resulting from a Shorthorn x Brahman cross, is known as America's original beef breed. What is it?
  - a. Beefmaster
  - b. Red Brangus
  - c. Senepol
  - d. Santa Gertrudis



16. Why are cattle implanted?
  - a. To promote reproductive efficiency
  - b. To improve disposition
  - c. To enhance marbling ability
  - d. To increase growth rates
17. Which method of pregnancy detection allows technicians the opportunity to determine the gender of the calf?
  - a. Palpation
  - b. Blood testing
  - c. Ultrasound
  - d. Milk testing
18. What is the name of the process that uses hormones to manipulate the reproductive cycles of breeding age beef females so that they come into heat in a predicted or scheduled time frame?
  - a. Preconditioning
  - b. Estrus synchronization
  - c. Follicular aspiration
  - d. Artificial insemination

19. What livestock ailment can be easily spread from one animal to the next through unsanitary combs, brushes and clipper blades?
- Ringworm
  - Pinkeye
  - Foot rot
  - Scours
20. An animal with which of the following breed compositions is most likely to be red and white?
- Simmental x Red Angus
  - Fullblood Simmental
  - Purebred Simbrah
  - Simmental x Maine-Anjou
21. What is the most definitive sign that a cow is in heat?
- Attempting to ride other cows
  - Clear mucous discharge
  - Standing to be mounted
  - Hair missing from tailhead
22. Refer to the image to the right.  
What are these items used for?
- Pulling calves
  - Collecting birth weights
  - Hot iron branding
  - Handling/leading cattle
23. Who is the 2024-25 TJSSA president?
- Hallie Hackett
  - Jarrett Pool
  - Pops Guerra
  - Ryleigh Whitaker
24. Where is the twist located on a beef animal?
- At the end of its tail
  - Where the muscles of the rear legs meet
  - Between the hock and pastern
  - Where the ribcage ends and the loin begins
25. Which of these types of cattle is most likely to be implanted?
- Pre-weaned steers
  - Feedlot cattle
  - Replacement heifers
  - Yearling bulls
26. What term refers to an animal's internal dimension and is indicated by traits like rib shape, chest floor depth, and flank depth?
- Volume
  - Condition
  - Bloom
  - Frame
27. What is the main source of fiber in a beef animal's diet?
- Cornstalks
  - Oats
  - Wheat straw
  - Hay and grass
28. The majority of official composite breeds in the United States use what breed as a foundation?
- Simmental
  - Angus
  - Brahman
  - Hereford



29. What does it mean to feed a hot ration?
- Feeding more protein and/or energy than a standard ration contains
  - Feeding a ration to prepare your cattle for increased temperatures and/or humidity levels
  - Feeding a ration that is highly fermentable and is therefore a warmer temperature than most feed mixes
  - Feeding a higher amount of total feed than usual
30. What is the term for the show-day preparation of an animal?
- Clipping
  - Grooming
  - Blowing
  - Fitting

## TIEBREAKER QUESTIONS

Questions 31 through 35 are tiebreaker questions. They will only be scored in case of ties at the top.

31. Where is Trans Ova headquartered?
- Chillicothe, MO
  - Sioux Center, IA
  - Bryan, TX
  - Omaha, NE
32. What undesirable carcass condition sometimes occurs when cattle experience stress immediately before they are harvested?
- Dark Cutter
  - Retail Bruising
  - Pale, Soft and Exudative (PSE)
  - Marble Bone
33. In beef cattle, which of the following keeps body pH balanced and regulates the amount of water retained in the body?
- Potassium
  - Vitamin A
  - Salt
  - Calcium
34. What breed association recently rebranded the commercial-oriented part of its print publication, using the title *Baldy Advantage*?
- American Simmental Association
  - American Hereford Association
  - American Maine-Anjou Association
  - Red Angus Association of America
35. What is the most common cause of mineral deficiencies in beef operations?
- Poor grazing conditions
  - Lack of proper access to drinking water
  - Consumption of forages that counteract the effects of minerals
  - Producer does not provide adequate mineral supplements