

**2025 TJSSA State Futurity
Cattlemen's Quiz
Intermediate 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. Insufficient intake of which nutrient reduces an animal's performance faster and more dramatically than any other deficiency?
 - a. Water
 - b. Salt
 - c. Protein
 - d. Energy

2. If you need to tube feed a calf, what is the best position for the calf?
 - a. Standing
 - b. Sitting (front end elevated)
 - c. Lying down
 - d. Lying on its side

3. What is the most common cause of mineral deficiencies in beef operations?
 - a. Poor grazing conditions
 - b. Lack of proper access to drinking water
 - c. Consumption of forages that counteract the effects of minerals
 - d. Producer does not provide adequate mineral supplements

4. The majority of official composite breeds in the United States use what breed as a foundation?
 - a. Simmental
 - b. Angus
 - c. Brahman
 - d. Hereford

5. What livestock ailment can be easily spread from one animal to the next through unsanitary combs, brushes and clipper blades?
 - a. Pinkeye
 - b. Ringworm
 - c. Abscesses
 - d. Scours

6. In general, what does it mean when an animal is described as *bigger pinned*?
 - a. That animal has more rib shape than what it is being compared to.
 - b. That animal has more foot size than what it is being compared to.
 - c. That animal has a larger frame score than what it is being compared to.
 - d. That animal has more hip width than what it is being compared to.

7. Most breeds of beef cattle found in the United States and Canada belong to which subspecies?
 - a. *Bos Americus*
 - b. *Bos indicus*
 - c. *Bos bovinus*
 - d. *Bos taurus*

8. To maximize their productivity, first-calf heifers should weigh approximately _____ of their mature weight at calving.
 - a. 65%
 - b. 75%
 - c. 85%
 - d. 95%

9. What is the common name for *paratuberculosis* – a chronic, contagious, and frequently fatal infection of the small intestines of ruminant animals?
 - a. Bang's Disease
 - b. Johne's Disease
 - c. Grass Staggers
 - d. Bluetongue

10. In general, which of the following is true about heifers on feed when compared to steers?
- On average, the heifers will have more backfat at finish.
 - On average, the heifers will finish at lighter weights.
 - On average, the heifers will require fewer days on feed to reach finish.
 - On average, the heifers will produce a higher percentage of USDA Choice or better carcasses.
11. Which method of pregnancy detection allows technicians the opportunity to determine the gender of the calf?
- Palpation
 - Blood testing
 - Ultrasound
 - All of the above

12. Refer to the image to the right.
What are these items used for?
- Pulling calves
 - Collecting birth weights
 - Hot iron branding
 - Handling/leading cattle



13. What is the main source of fiber in a beef animal's diet?
- Hay and grass
 - Cornstalks
 - Oats
 - Wheat straw
14. In embryo transfer, what is the correct term for the production of a greater than usual number of eggs available for fertilization?
- Ultraovulation
 - Hyperovulation
 - Extraovulation
 - Superovulation
15. Where is the State Fair of Texas held?
- Abilene
 - San Antonio
 - Dallas
 - Austin
16. 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
17. Aside from adding shine to the body, which part of the animal is most often the last to be fitted?
- Switch
 - Belly
 - Tail head
 - Front legs
18. According to BQA guidelines, which method of administering drugs is the most likely to cause tissue damage and should be avoided whenever possible?
- Intramuscular (IM)
 - Intravenous (IV)
 - Subcutaneous (Sub-Q)
 - Pneumatic (PN)
19. What is the common name for an IVF collection facility that is not owned by the company performing the lab work?
- Franchise
 - Branch
 - Satellite
 - Cooperator

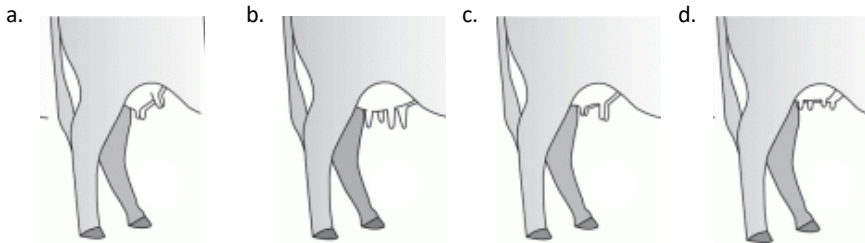
20. Where is the 2025 AJSA National Classic being held?
- Grand Island, Nebraska
 - Springfield, Missouri
 - Louisville, Kentucky
 - Madison, Wisconsin
21. In beef cattle, which of the following keeps body pH balanced and regulates the amount of water retained in the body?
- Potassium
 - Salt
 - Vitamin A
 - Magnesium

22. Refer to the image to the right.
When left as part of a larger cut, this popular retail cut of beef makes up part of a porterhouse or T-bone steak. What is it?
- Filet mignon
 - New York strip
 - Ribeye
 - Sirloin steak



23. Why are cattle implanted?
- To promote reproductive efficiency
 - To improve disposition
 - To increase growth rates
 - To enhance marbling ability
24. What commonly used feed process is most effective at reducing waste?
- Grinding
 - Wetting
 - Mixing
 - Pelleting
25. What is the primary reason that beef producers utilize heat synchronization?
- To shorten calving intervals
 - To bring females into heat in a more concise time frame
 - To expand their embryo transfer programs
 - To reduce the number of days their cows are exposed to a herd sire
26. During which season of the year do cattle drink the most water?
- Winter
 - Spring
 - Summer
 - Fall
27. What undesirable carcass condition sometimes occurs when cattle experience stress immediately before they are harvested?
- Dark Cutter
 - Retail Bruising
 - Marble Bone
 - Pale, Soft and Exudative (PSE)

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



29. 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
30. Where is Trans Ova headquartered?
- Chillicothe, MO
 - Bryan, TX
 - Omaha, NE
 - Sioux Center, IA

TIEBREAKER QUESTIONS

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

31. What is the proper term for the process by which the uterus returns to its normal size after calving?
- Shrinkage
 - Reduction
 - Contraction
 - Involution
32. There are three classes of veterinary drugs. Which of the following is not one of them?
- Over the counter
 - Prescription
 - Hormone therapy
 - Veterinary Feed Directive
33. Which of the following animals would you expect to reach puberty the earliest?
- Purebred Simmental
 - Purebred Angus
 - SimAngus™
 - Simbrah
34. In the IVF process, what does the term *pooling* refer to?
- Using multiple sires to fertilize oocytes from a single donor
 - Combining oocytes from multiple donors into a single culture for fertilization
 - Synchronizing a large group of recipients so that multiple embryos can be implanted fresh
 - Utilizing both conventional and sexed semen in the same fertilization dish
35. The increased use of estrus synchronization programs in the beef industry has definitely led to:
- increased use of artificial insemination
 - improved calving ease
 - higher pregnancy rates
 - shorter calving intervals