

**2025 TJSSA State Futurity
Cattlemen's Quiz
Senior and Collegiate Divisions**

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. Which of the following animals would you expect to reach puberty the earliest?
 - a. Purebred Simmental
 - b. Purebred Angus
 - c. SimAngus™
 - d. Simbrah

2. 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

3. 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?
 - a. Filet mignon
 - b. New York strip
 - c. Ribeye
 - d. Sirloin steak

4. What is the main source of fiber in a beef animal's diet?
 - a. Hay and grass
 - b. Cornstalks
 - c. Wheat straw
 - d. Oats

5. Aside from adding shine to the body, which part of the animal is most often the last to be fitted?
 - a. Belly
 - b. Tail head
 - c. Front legs
 - d. Switch

6. 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

7. What breed association recently rebranded the commercial-oriented part of its print publication, using the title *Baldy Advantage*?
 - a. American Simmental Association
 - b. American Hereford Association
 - c. American Maine-Anjou Association
 - d. Red Angus Association of America

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

9. Where is Trans Ova headquartered?
 - a. Chillicothe, MO
 - b. Bryan, TX
 - c. Omaha, NE
 - d. Sioux Center, IA



10. High-altitude disease is responsible for 3-5% of all calf death loss in herds managed at high elevation. This disease causes swelling in the neck and brisket areas of an animal, resulting in decreased function of which major organ or organs?
 - a. Lungs
 - b. Heart
 - c. Liver
 - d. Trachea

11. In a test period, Steer 412 consumes an average of 20 pounds of dry matter per day and has an average daily gain of 3.6 pounds. Steer 438 consumes an average of 23 pounds of dry matter with an average daily gain of 3.9 pounds per day. Which steer should be considered more feed efficient?
 - a. Steer 412
 - b. Steer 438
 - c. Their feed-to-gain ratios are statistically equivalent.
 - d. This cannot be determined without knowing the steers' actual weights.

12. What is the primary reason that beef producers utilize heat synchronization?
 - a. To shorten calving intervals
 - b. To expand their embryo transfer programs
 - c. To reduce the amount of time spent heat detecting
 - d. To bring females into heat in a more concise time frame

13. 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

14. In beef cattle, which of the following keeps body pH balanced and regulates the amount of water retained in the body?
 - a. Potassium
 - b. Vitamin A
 - c. Salt
 - d. Magnesium

15. Refer to the image to the right.
What is the proper name for these tools?
 - a. Diametrical chains and handle
 - b. Obstetrical chains and handle
 - c. Etiological chains and handle
 - d. Thyrocervical chains and handle



16. Where is the State Fair of Texas held?
 - a. Abilene
 - b. San Antonio
 - c. Austin
 - d. Dallas

17. What commonly used feed process is most effective at reducing waste?
 - a. Grinding
 - b. Wetting
 - c. Mixing
 - d. Pelleting

18. 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.

19. What undesirable carcass condition sometimes occurs when cattle experience stress immediately before they are harvested?
 - a. Retail Bruising
 - b. Pale, Soft and Exudative (PSE)
 - c. Marble Bone
 - d. Dark Cutter

20. Which of these is sometimes called the pregnancy hormone – because it prepares the uterus for implantation of an embryo, maintains the pregnancy after conception, and prevents the cow from showing heat?
- Estrogen
 - Progesterone
 - Prostaglandin
 - Estradiol
21. Where is the 2025 AJSA National Classic being held?
- Grand Island, Nebraska
 - Springfield, Missouri
 - Madison, Wisconsin
 - Louisville, Kentucky
22. Which method of pregnancy detection allows technicians the opportunity to determine the gender of the calf?
- Palpation
 - Blood testing
 - Ultrasound
 - All of the above
23. What is the common name for an IVF collection facility that is not owned by the company performing the lab work?
- Franchise
 - Branch
 - Cooperator
 - Satellite
24. Why are cattle implanted?
- To increase growth rates
 - To promote reproductive efficiency
 - To improve disposition
 - To enhance marbling ability
25. In the IVF process, what does the term *pooling* refer to?
- Using multiple sires to fertilize oocytes from a single donor
 - 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
 - Combining oocytes from multiple donors into a single culture for fertilization
26. There are three classes of veterinary drugs. Which of the following is not one of them?
- Over the counter
 - Hormone therapy
 - Prescription
 - Veterinary Feed Directive
27. What is the proper term for the process by which the uterus returns to its normal size after calving?
- Involution
 - Shrinkage
 - Reduction
 - Contraction
28. To maximize their productivity, first-calf heifers should weigh approximately _____ of their mature weight at calving.
- 65%
 - 75%
 - 85%
 - 95%
29. In embryo transfer, what is the correct term for the production of a greater than usual number of eggs available for fertilization?
- Ultraovulation
 - Extraovulation
 - Superovulation
 - Hyperovulation

30. What Texan was selected as the 2024 Beef Advocate of the Year by the National Cattlemen's Beef Association?
- Emma Coffman
 - Tyler Schuster
 - Sarah Sprayberry
 - Ally Spears

TIEBREAKER QUESTIONS

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

31. According to an Oklahoma State University report, growth-promoting implants in the feedlot decrease feed intake by an average of:
- 1.5%
 - 3%
 - 6%
 - 12%
32. Beginning in November 2024, cattle and bison imports from Mexico were suspended for approximately two months. On May 11, Mexican imports were suspended again for the same reason. What is that reason?
- To protect producers from a potential reintroduction of foot and mouth disease
 - To prevent New World screwworms from entering the United States
 - To temporarily ease logjams at major processing plants and meat lockers
 - To address noncompliance issues with the reporting of BSE cases
33. Including the United States, how many countries allow the sale of lab-grown meat to consumers as of March 2025?
- 2
 - 12
 - 22
 - 32
34. Who is the current Texas Agriculture Commissioner?
- Carl Glass, Jr.
 - Sid Miller
 - Jason Skaggs
 - Brooke Rollins
35. According to the National Association of Animal Breeders (NAAB), what were the three top-selling breeds in domestic semen sales in 2024?
- Angus, Simmental and Hereford
 - Angus, Simmental and Red Angus
 - Angus, Simmental and Limousin
 - Angus, Simmental and Charolais