1. **Intramuscular** means:
   a. under the skin  
   b. under the muscle  
   c. in the muscle  
   d. in the skin

2. If a lamb is given shot of BO-SE® to prevent white muscle disease, what two nutrients are being supplied?
   a. Selenium and Magnesium  
   b. Vitamin A and Copper  
   c. Calcium and Phosphorus  
   d. Selenium and Vitamin E

3. If a cattleman borrows $100,000 in operating funds at a 6% interest rate, what would be his annual interest expense?
   a. $0  
   b. $600  
   c. $6,000  
   d. $60,000

4. What term is used to describe a difficult birth?
   a. Dystocia  
   b. Cytosis  
   c. Flushing  
   d. Farrow

5. If your cow has “Hardware disease”, which stomach compartment is being affected?
   a. Rumen  
   b. Reticulum  
   c. Omasum  
   d. Abomasum

6. According to Beef Quality Assurance guidelines, what is the maximum amount of medication allowed per injection site?
   a. 5 cc  
   b. 10 cc  
   c. 12 cc  
   d. There is no maximum amount

7. Which species is generally considered to be a seasonal breeder?
   a. Sheep  
   b. Cattle  
   c. Swine  
   d. None of these

8. Which term refers to a castrated male hog?
   a. Gilt  
   b. Boar  
   c. Barrow  
   d. Wether

9. Which of the following is the most important nutrient to provide to your livestock?
   a. Protein  
   b. Minerals  
   c. Fat  
   d. Water

10. What term describes a disease that can be passed between animals and people?
    a. Zoonotic  
    b. Acute  
    c. Deadly  
    d. None of the above

11. ________________ refers to the amount of time that must pass between the last day the animal was treated with a drug and slaughter.
    a. Withdrawal time  
    b. Quarantine  
    c. Waiting time  
    d. Holding

12. What do you call sheep meat that comes from a sheep that is over 1 year of age?
    a. Chevon  
    b. Mutton  
    c. Lamb  
    d. Aged Sheep
13. Which of these is beef breeds would have the tallest mature size?
   a. Chianina
   b. Hereford
   c. Angus
   d. Charolais

14. For ruminants, urea is an excellent source of:
   a. Energy
   b. Fat
   c. Protein
   d. Non-protein nitrogen

15. How long is the estrous cycle of a ewe?
   a. 10 days
   b. 17 days
   c. 21 days
   d. 30 days

16. The word “porcine” relates to which species of livestock animal?
   a. Sheep
   b. Cattle
   c. Swine
   d. Goats

17. Finish is a term used to describe:
   a. Fatness
   b. Frame Score
   c. Muscling
   d. Hair coat

18. A 300 pound market hog produces a carcass that weighs 225 pounds. What is the dressing percentage for this hog?
   a. 50%
   b. 75%
   c. 65%
   d. 90%

19. What term refers to a heifer that is sterile due to being born twin to a bull calf?
   a. Freemartin
   b. Klinefelter
   c. Heiferette
   d. Ketotic

20. Which hormone is associated with maintaining pregnancy in females?
   a. Estrogen
   b. Oxytocin
   c. Testosterone
   d. Progesterone