**WRITE THE LETTER OF YOUR ANSWER ON THE LINE!!**

 1. If a genotype AA weighs 30 lbs, Aa weighs 20 lbs, and aa weighs 10 lbs, what is this an example of?

a. Partial Dominance c. Over Dominance

b. Complete Dominance d. No Dominance

 2. True or False: In the pancreas, beta cells produce glucagon, alpha cells produce insulin.

 A. True

 B. False

 3. What is one thing beef quality grading is based on?

a. Degree of muscle c. Degree of bone

b. Degree of marbling d. Degree of skin

 4. What is the order of a beef animals small intestine?

a. Duodenum, jejunum, ileum c. Jejunum, ileum, duodenum

b. Duodenum, ileum, jejunum d. ileum, jejunum, duodenum

 5. Calving interval is heritable.

a. Highly c. Moderately

b. Lowly d. It’s not a heritable trait

 6. The normal gestation length of a beef animal is:

a. 210-220 days c. 279-290 days

b. 250-263 days d. 295-306 days

 7. Who is the current Virginia Secretary of Agriculture?

a. Todd Haymore c. Sandra Gillispie

b. Tom Vilsack d. Clint Lyle

 8. What is the maximum number of cc’s per injection for beef cattle?

a. 2 cc c. 10 cc

b. 5 cc d. 12 cc

 9. The eight beef quality grades in descending order are: Prime, \_\_\_\_\_\_\_\_\_, Select, Standard, Commercial,

Utility, \_\_\_\_\_\_\_\_, and Canner. Fill in the blanks.

a. Choice, Cutter c. Acceptable, Unacceptable

b. Cutter, Choice d. Acceptable, Choice

 10. \_\_\_\_\_­­\_\_\_ is when the testes do not descend and remain in the abdomen.

a. Ascended testes c. Cryptorchidism

b. Abdominal testes d. Gonads

 11. Goiter is caused by a lack of in the diet.

a. Selenium c. Iron

b. Magnesium d. Iodine

 12. True or False: Hyperplasia is the growth in cell number and hypertrophy is growth in cell size.

 A. True

 B. False

 13. What is the only way a system captures chemical energy?

a. Coprophagy c. Taking medication

b. Laying out in the sun d. None of these ways

 14. What percent of protein should growing cattle receive?

a. 6-10% c. 12-16%

b. 18-22% d. 24-28%

 15. What part of the digestive system functions as a storage area for food and aids in the breakdown of

coarse particles through bacterial action?

a. Rumen c. Abomasun

b. Reticulum d. Omasum

 16. True or False: Carbohydrates make up a higher percentage than fats in the body mass of young, growing farm

animals.

1. True
2. False

 17. What is the genotype for a horned animal?

a. PP c. pp

b. Pp d. None of the Above

 18. The scrotum is important for sperm protection and .

a. Ejaculation c. Sperm count

b. Releasing testosterone d. Temperature regulation

 19. What is a symptom of coccidiosis?

a. Weight loss c. Lesions in intestinal wall

b. Blood in feces d. All of the Above

 20. When should body condition scoring in cattle be done?

a. 2-3 weeks before calving c. 2-3 weeks after calving

b. 2-3 months before calving d. When the Heifer is not pregnant

 21. This growth hormone produces lean tissue growth throughout the animal and is produced by the anterior pituitary

gland.

a. Somatoptropin c. Testosterone

b. Steroid d. Progesterone

 22. What is it called when one or more hooves are solid in structure rather than cloven.

a. Separate c. Syndactyly

b. Closed hooved d. Solid hooved

 23. True or False: Cattle can often become bloated from the feed they are fed. A trocar is used to release

the gas when inserted in the left side of the animal.

1. True
2. False

 24. stimulates milk production and plays a role in the development of the Corpus Luteum.

a. Estrogen c. Luteinizing hormone

b. Prolactin d. Progesterone

 25. Cattle are fed roughages because they are high in .

a. Protein c. Fiber

b. TDN d. None of the Above