

2012 Virginia Junior Livestock Expo
Senior Stockmen's Quiz

1. When determining which vitamins to add to a ewe's ration, which vitamin is already supplied by the rumen microorganisms? p. 354 **Animal Nutrition**
A. Vitamin K B. Vitamin A C. **Vitamin B12** D. Vitamin D
2. If you want to add more protein to a pig's diet, which of the following concentrate would be a good additive? p.323 **Basics of Nutrition**
A. Straw B. Oats C. Corn D. **Soybean meal**
3. Wheat and rye are crossed to get this hybrid cereal grain. p. 342 **Animal Nutrition**
A. Corn B. **Triticale** C. Milo D. Wheat middlings
4. Which feed processing method requires the least amount of fuel energy to make it more palatable and digestible? p.375 **Animal Nutrition**
A. **Grinding corn**
B. Drying corn
C. Drying wet beet pulp
D. Dehydrating and pelleting alfalfa
5. A Merino flock has lambs that are lethargic and uncoordinated, one ewe died and the other ewes have steely wool. What is the mineral toxicity in your flock? p.203 **Animal Nutrition**
A. Manganese B. **Copper** C. Iron D. Zinc
6. Which factors affect the microbial activity in meat? p. 158 **Meat Science**
A. Acidity B. Moisture C. Oxygen D. **All of the above**
7. Meat is a good source of iron, why is iron required in meat? p.254 **Meat Science**
A. **Synthesis of hemoglobin and myoglobin**
B. Give the meat its color
C. Provide support
D. Build proteins
8. Binding refers to the meat's ability to hold fat and added water during processing and avoid fat breakdown. Which cut of meat is considered a filler meat? p. 135 **Meat Science**
A. Beef chuck B. Beef briskets C. Pork cheek and head meat D. **Tripe**
9. When curing a pork ham, what ingredient is added to prevent oxidative rancidity? p.120 **Meat Science**
A. Glycerol B. **Phosphates** C. Herbs D. Pickle solution
10. By-products of the meat industry have a high economic value. p.289 **Meat Science**
A. **True** B. False
11. How many chromosomes do pigs have? p. 329 **Animal Science**
A. 60 B. 80 C. **38** D. 54
12. You are looking for a bull to breed to your 30- head herd of Brangus cows in June. Which bull would not make a good sire? **Kristen, p.271**
A. Hereford bull with good carcass traits

- B. Angus bull with high C.E.
C. Angus bull that is a unilateral cryptorchid
 D. Barzona bull that is dominant for red coat color
13. Having a white belt in swine is a dominant trait (WW). If a boar is a carrier (Ww) of the gene for white belts and the sow is heterozygous (Ww) for the white belt, then what are the expected % of white belts? **p.333 Animal Science**
A. 25% solid white belts, 50% carriers of white belts, 25% no belts
 B. 50% solid white belts, 50% no belts
 C. 75% solid white belts, 25% no belts
 D. All piglets will have white belts
14. Feedlots prefer to have a uniform group of cattle. Processors prefer to have a uniform group of pigs to fabricate. What is the benefit of genetic variation? **p. 339 Animal Science**
B. To produce superior animals, therefore increasing the herd's hybrid vigor
 A. There are no good reasons for genetic variation
 C. For improvement of the phenotypic variation
 D. The environment has too much affect on genetics so it causes variation
15. If a ewe lamb is stunted in size due to inadequate rations, will she transmit this characteristic to her offspring? **p. 338 Animal Science**
A. No, because it is an environmental characteristic, not a genetic
 B. Yes, it's a possibility because the offspring receive half of her genetics
 C. It depends on what ram she was bred to
16. When castrating a bull or ram with an emasculator, what chord is crushed to render them inactive? **p. 271 A.S.**
C. Spermatic chord
 A. Seminiferous tubule
 B. Cremaster chord
 D. Masculatome chord
17. What regresses on the ovary, if conception does not occur and the ovum has been shed? **p.275 A.S.**
D. Corpus luteum
 A. Corpus albicans
 B. Cervical egg
 C. Follicular ovule
18. Every 6 months it is good to vaccinate your boar for reproductive diseases that could be passed to the piglets, what is one of the infectious diseases that reproductive vaccines cover? **p.232 A.S.**
 A. Hyperplasia B. **Erysipelas** C. Parasivirus D. Listeriosis
19. What hormone induces parturition by increasing uterine contractions? **p. 280 A.S.**
 A. Progesterone B. Prostaglandins C. **Oxytocin** D. GnRH

20. As a ram ages, his sperm ages. As the ewe ages, her eggs age. **Kristen**
A. True **B. False**
21. Which organization filed a lawsuit against the USDA and U.S. secretary of agriculture over the purchase by the National Pork Board of "The Other White Meat" registered trademark?
<http://www.pork.org/News/1443/NationalPorkBoardRespondsToHSUSLawsuit.aspx>
A. PETA **B. HSUS** C. ADA D. FDA
22. Hay stocks and grain stocks for livestock in the Midwest will be lower this coming winter. Why is that? **Kristen**
A. Farmers were not as efficient this past year
B. They sold off too much before they realized what they needed
C. The extreme drought this past summer decreased supply
D. The demand for hay and grain is not as high, so the supply is low
23. With the price of corn skyrocketing from high demand and low supply, what are hog farmers doing to combat this issue in the pork industry?
<http://www.bloomberg.com/news/2012-09-24/pork-supply-shrinks-to-lowest-since-1975-on-drought-commodities.html>
A. Feed alternative cheaper feed sources
B. Keep back fewer sows, slaughter more
C. Increase hog production by keeping back more gilts
D. Hog farmers have not made any decisions yet
24. As of 2012, how many sheep and lambs are there in Virginia?
www.sheep101.info/farm.html
A. < 20,000
B. 21,000-40,000
C. 41,000- 60,000
D. 61,000- 90,000
25. With a rough growing season this past summer and more corn being used for ethanol production, the price of corn has increased. What is the current price of corn?
http://ycharts.com/indicators/corn_price
A. \$3.35/bushel B. \$5.35/bushel C. **\$7.35/bushel** D. \$10.00/bushel