

2014 State Fair Swine Skill-a-thon  
Senior Quiz

1. Which hormone is responsible for the maintenance of pregnancy?
  - a. Estrogen
  - b. Prostaglandin
  - c. Progesterone
  - d. Prolactin
2. What part of the pig's brain secretes oxytocin?
  - a. Pituitary glands
  - b. Hypothalamus
  - c. Neuronal posterior lobe
  - d. Occipital lobe
3. What is the most limiting amino acid in swine?
  - a. Methionine
  - b. Leucine
  - c. Tryptophan
  - d. Lysine
4. The genotype that results in 30-50% PSE, but allows for a greater percentage of lean and the potential for superior growth is:
  - a. NN
  - b. Nn
  - c. nn
  - d. None of the above
5. One of the factors affecting yield grade in pork is:
  - a. Loin eye area
  - b. Muscle score
  - c. Hot carcass weight
  - d. Maturity
6. When curing a pork ham, what ingredient is added to prevent oxidative rancidity?
  - a. Glycerol
  - b. Phosphates
  - c. Herbs
  - d. Pickling solution
7. What structure can give a false positive for pregnancy when using ultrasound on sows?
  - a. Stomach
  - b. Lungs
  - c. Bladder
  - d. Jejunum
8. A pork carcass weighs 210 pounds, has 0.05 inch of backfat and a loineye area of 9.5 square inches. For the packer and processor, this carcass is:
  - a. Too big
  - b. Too fat
  - c. Too lean
  - d. Ideal
9. How many chromosomes does a pig have?
  - a. 60
  - b. 38
  - c. 34
  - d. 46
10. What is the term for the stance a sow takes when pressure is applied to her back when she is in standing heat?
  - a. Lordosis
  - b. Estrus
  - c. Receptivity
  - d. Pushing
11. What are the three parts of a hog's digestive tract (in order)?
  - a. Duodenum, jejunum, ileum
  - b. Jejunum, cecum, colon
  - c. Fundic, corpice, pyloric
  - d. Duodenum, ileum, cecum
12. In growing market hogs, which sex tends to deposit fat first?
  - a. Gilts
  - b. Barrows
  - c. Boar
  - d. They all deposit fat at the same rate
13. Where did the Poland China breed originate?
  - a. France
  - b. Indiana
  - c. Ohio
  - d. Poland

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14. 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?
- a. 25%
  - b. 50%
  - c. 75%
  - d. 100%
15. What hormone induces parturition by increasing uterine contractions?
- a. GnRH
  - b. Oxytocin
  - c. Prostaglandin
  - d. Progesterone
16. Yield grade can be determined by the amount of fat measured in tenths of an inch over the ribeye muscle, also called the:
- a. Semimembranosus
  - b. Longissimus dorsi
  - c. Psoas Major
  - d. Semitendinous
17. What wholesale cut is the back ribs from?
- a. Spare ribs
  - b. Loin
  - c. Shoulder
  - d. Ham
18. Which of the following is a major problem in quality of pork?
- a. PSE
  - b. PEDV
  - c. SPI
  - d. TSI
19. The EPD used in swine to predict the potential growth of their offspring is:
- a. Number Born Alive
  - b. 21-Day Litter Weight
  - c. 250-Day Weight
  - d. Litter Size
20. In the commercial industry, the price paid to a producer for a market hog is based on
- a. Back fat depth
  - b. Carcass weight
  - c. Live weight
  - d. Both a and b
21. The fat measurement used in calculating the percent lean or fat-free lean index in hogs is taken where?
- a. First rib
  - b. Tenth rib
  - c. 12-13 rib
  - d. Last rib
22. Which is not a quality grade for pork?
- a. Choice
  - b. Prime
  - c. Standard
  - d. None of these are
23. Which concentrate would be the best source of protein in a pig's diet?
- a. Urea
  - b. Soybean meal
  - c. Ground ear corn
  - d. Cottonseed meal
24. When assessing body condition of a mature lactating sow, you should feel for fat cover
- a. Over the shoulders and ribs
  - b. Over the backbone/spine
  - c. Over and around the hips
  - d. All of the above
25. A pig now weighs 250 pounds. 75 days ago he weighed 100 pounds. He has eaten a total of 600 pounds of feed. What is his Feed Efficiency, also known as Feed-to-Gain Ratio?
- a. 2
  - b. 4
  - c. 6
  - d. 8