

2014 State Fair Swine Skill-a-thon
Senior Quiz Key

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