**Samuel Clemens Invitational Contest**

**January 15, 2011**

1. What percentage of all table eggs are commercially produced by caged hens in large houses.

a. 60% b. 70 % c. 80% **d. 90%**

2. The \_\_ secretes the hormone insulin which regulates sugar metabolism.

**a. Pancreas** b. Ovary c. Adrenals d. Liver

3. In a broiler breeder operation, producers strive to produce one dozen of settable eggs on how many pounds of feed?

a. 4 lbs b. 5 lbs. **c. 7 lbs.**  d. 10 lbs.

4. How many flocks of commercial broilers are raised on a broiler farm each year?

a. 2-3 flocks b. 3-4 flocks c**. 5-7 flocks** d. 7-9 flocks

5. \_\_ is the part of the oviduct that is responsible for the passage of the egg (oviposition).

a. Infundibulum b. Isthmus c. Uterus **d. Vagina**

6. During embryogenesis, this temporary membrane is attached to the inside f the shell and helps exchange oxygen and carbon dioxide, acts as a reservoir to collect solid wastes, and removes calcium from the shell to be used by the embryo to form bones.

**a. Chorioallantoic** b. Chorion c. Yolk sac d. Amnion

7. Which of the following is classified as a “direct factor” in the cause of a disease?

a. Poor ventilation b.Overcrowding c. Poor feed quality **d. Virus**

8. The moisture content of poultry manure is approximately \_\_.

a. 5% b. 15% c. 50%  **d. 75%**

9. When evaluating plumage condition in egg-type production hens, which of the following should be considered?

a. **Feather appearance** b. Pigmentation c. Width of hips d. Size of Comb

10. On a broiler breeder pullet and cockerel farm, birds are raised from hatchlings to approximately \_\_ weeks of age and will replace older breeder flocks.

a. 8 b. 12 c. 16 **d. 20**

11. A broiler carcass that has a back trim out the width of the tail that extends to the hip bones is a USDA grade \_\_\_.

a. A b. B **c. C** d. No Grade

1. An egg that has a 3/8 inch air cell with no meat spots or blood spots is a USDA grade \_\_.

a. AA b. A **c. B** d. Loss

1. What part of the digestive tract helps with the breakdown of more resistant cell wall material due to the presence of anaerobic bacteria?

a. Cloaca b. Ileum c. Large Intestine **d. Cecum**

1. During incubation, this membrane forms under the embryo and collects water from the albumen. Once formed it aids in prevention of injury to the developing embryo. What is the name of this membrane?
   1. **Amnion**  b. Yolk sac c. Allantois d. Chorion
2. When evaluating past production hens, it takes approximately \_\_\_\_\_ weeks to bleach out the entire beak.
   1. **5 to 8** b. 8 to 12 c. 12 to 20 d. 20 to 30

16. When a pullet begins producing eggs, the pigment in her body begins to fade. How long does it take to bleach out the eye ring?

a. 0 to 2 weeks **b. 2 to 2.5 weeks** c. 3 to 4 weeks d. 5 to 8 weeks

17. When evaluating broiler breeders for future meat production, which of the following should not be taken into consideration?

a. Deformities **b. Sexual Maturity** c. Breast meat quantity d. Body conformation

18. During normal ovulation, the follicular membrane ruptures along the \_\_\_\_ to prevent hemorrhaging and blood spots in the egg.

a. Ovum b. Yolk c. Ovary d**. Stigma**

19. Which of the following hormone inhibits ovary functioning and stimulated broodiness in the female?

a. Follicle Stimulating Hormone **b. Prolactin**

c. Tyroxin d. Parathyroid Hormone

20. \_\_\_ are concrete or concrete block structures that is constructed outside the poultry house to collect settleable solids and to skim floating material from the flush water.

a. In-house pits **b. Settling Tanks** c. High-rise storage system d. Dry-Stack Storage System

21. Farmer Aggie placed 18,000 day old broiler in one of his broiler houses. At six weeks of age, the live haul crew collected 17, 285 broilers to transport to the processing plant. What was the mortality rate of his flock?

a. 2.84% b. 3.17% **c. 3.97%**  d. 4.82%

22. John David Crow, a hatchery manager, set a total of 185,000 eggs in his hatchery. Twenty-one days later 162,800 chicks hatched out and were sent to a broiler grow out facility. What was the hatchability for these eggs?

a. 77% b. 82% **c. 88%** d. 94%

23. A broiler processing facility processed a total of 285,485 chickens in one day of operation with an average live weight of 5.87 pounds per bird. The average carcass weighed 4.23 pounds and yielded 1.08 lbs of breast meat. What is the carcass dressing percentage fort this day of operation?

a. 68.57% **b. 72.06%** c. 78.92% d. 81.23%

24. A large commercial egg facility has 255,000 laying hens on sight with a 90% production rate. How many dozen eggs are produced at this facility each week?

a. 14,562 b. 19,125 c. 98,297 **d. 133,875**

25. Farmer Aggie produced 11,547 turkeys for market with an average weight of 22 pounds per turkey. During the growing period, these turkeys consumed 627,464 pounds of feed. What is the feed conversion for this flock of turkeys?

a. 1.89 b. 2.24 **c. 2.47** d. 3.09