**Area 3 and 7 Poultry Judging Contest – Texas A&M University**

**April 9, 2011**

1. \_\_ is the part of the oviduct that is responsible for the formation of the two shell membranes.

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

2. During embryogenesis, this temporary membrane forms under the embryo and collects water from the albumen which helps prevent physical injury.

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

3. The body temperature of poultry ranges between \_\_ and \_\_ °F.

a. 37 and 39 b. 40 and 41 c. 102 and 104 **d. 105 and 107**

4. An egg that has a 3/8 inch air cell with a visible blood spot is a USDA grade \_\_.

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

5. The chicken oviduct is nearly \_\_ centimeters long in an egg producing hen.

a. 54 b. **78** c.94 d. 107

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

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

7. The \_\_ secrete a corticosterone hormone to regulate mineral utilization and bird stress.

a. Pancreas b. Parathyroid **c. Adrenals** d. Thyroid

8. Poultry have a high rate of food passage. What is the length of time for food passage for an egg-laying hen?

a. 1.5 hr **b. 2.5 hr** c. 4 hr d. 6.5 hr

9. What is the average pulse rate of poultry while at rest (beats per minute)?

a. 90 b. 150 c. 240 **d. 300**

10. In broilers, the pectoral muscles weigh nearly as much as all the other muscles and account for \_\_\_\_\_ of the bird’s total weight.

a. 5-10% **b. 15-25%** c. 30-40% d. 50%

11. \_\_\_\_\_\_ gives meat of the thigh and drumstick the characteristic dark color.

**a. Myoglobin** b. Medullary c. Sarorius d. Glycogen

12. During a soft scald, poultry carcasses are immersed in \_\_\_ °F which minimizes the removal of the cuticle.

a. 110 b. 115 **c. 125**  d. 140

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

a. Deformities **b. Handling Qualities** c. Breast meat quantity d. Body conformation

14. The \_\_ is the responsible for the production of bile as well as the storage of glycogen.

a. Gall Bladder b. Spleen c. Cecum **d. Liver**

15. Which of the following diseases is classified as a protozoan disease?

a. Cholera b. Aspergillosis c. Marek’s d. **Coccidiosis**

16. 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**

17. The skin of the fowl is made up of two layers. The outer layer of the skin is termed what?

a. Pterylae **b. Epidermis** c. Coverts d. Dermis

18. The yolk particles in an egg contain \_\_\_\_ as the major energy source for the developing embryo.

**a. fat**  b. carbohydrates c. proteins d. amino acids

19. The muscle that is responsible for elevating and depressing the tail is \_\_\_\_\_?

a. Obliquus **b. Coccygis** c. Pterylarum d. Teres major

20. A ready to cook broiler carcass that is missing both wings at the second joint, has a broken drumstick and a 3 inches of exposed flesh on the back is a USDA grade \_\_\_\_?

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

Use the following information to answer Questions 21 to 25.

A family owned poultry operation has a broiler breeder flock of 15,350 hens which produced 92,407 total eggs over a seven day period of which 975 were deemed unsettable due to because of checks and other defects. The company placed all of the settable eggs in an incubator and a total of 79,800 chicks hatched. One percent of the total hatch was culled at the hatchery for humane reasons prior to placement and the remainder was placed in broiler houses for growout. Following hatch, a total of 4,139 eggs were found to be infertile. On day 42 of age, a total of 76,053 broilers with an average live weight of 5.8 lbs were loaded and transported to the processing plant. It was determined that the flock had a feed conversion during growout of 1.80. Following processing, the average carcass weight of this flock was 4.21 lbs with an average breast meat weight following deboning of 1.04 lbs. The profit margin that the company experienced was $0.04 per lb of carcass weight produced.

21. What is the hen day production level of this flock on a per day basis?

a. 75% b. 79% **c. 86%** d. 87%

22. What is the mortality rate for this flock of broilers?

a. 2.71% b. 3.33% c. **3.73%**  d. 4.71%

23. What is the hatchability of settable fertile eggs set?

a. 83.4% b. 86.4% c. 90.4% **d. 91.4%**

24. The total feed consumption for this flock of broilers was?

a. 136,895 lbs b. 441,107 lbs c. 567,921 lbs **d. 793,993 lbs**

25. What is the total profit for this flock of broilers?

a. $0.17 b. $3042.12 c. $3,163.80 d. **$12,807.33**