**Houston Livestock Show and Rodeo Poultry Judging Contest**

**March 12, 2011**

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

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

2. 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.

3. Commercial turkey operations produce young turkeys that require approximately \_\_\_\_\_ pounds of feed per pound of body weight during the growing period.

a. 1.8 b. 2.0 **c. 2.5** d. 3.5

4. When evaluating broiler breeders for the deformity of severely crooked toe or toes, one or more toes must be turned at an angle of \_\_\_ ° or greater.

a. 30 b. 45 c. 60 d. **90**

5. Which of the following diseases is classified as a respiratory disease?

a. Cholera b. **Aspergillosis** c. Cocccidiosis d. Necrotic Enteritis

6. What percentage of hatchability of settable eggs do broiler breeder operations strive to meet?

a. 65 b. 75 c. **85** d**.** 95

7. 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

8. A broiler carcass that has one broken wing bone and over 1/3 exposed flesh on the breast is a USDA grade\_\_\_.

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

9. \_\_\_\_ refers to the general condition of the abdomen of a production hen.

a. Laying b. Hips c. Finish **d. Handling Qualities**

10. The white feathered broiler that is currently used in the commercial chicken industry is a cross between \_\_\_\_?

a. **Cornish and White Plymouth Rock**  b. Rhode Island Red and Cornish

c. Cornish and Leghorn d. New Hampshire and Leghorn

11. A typical turkey operation has a grow-out capacity of approximately \_\_\_\_\_\_\_\_ birds.

a. 2,000 b. 5,000 c. 10,000 d. **18,000**

12. The genus and species name for a domestic chicken is \_\_.

a. **Gallus gallus** b. Meleagris gallapavo c. Coturnix coturnix d. Anser anser

13. The outer layer of a fowl skin is termed what?

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

14. The muscle that’s main function is to elevate the wings to aid in flight is what muscle?

a. Flexor Perforans b. Pectoralis Major c. Teres Minor d. **Pectoralis Minor**

15. An egg shell that has a fine hair-like crack with the shell membranes are intact without the egg contents leaking is termed \_\_.

a. **Check** b. Dented Check c. Body Check d. Pronounced Thin Spot

16. 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

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

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

18. 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%

19. 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

20. 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**

Use the following information to answer Questions 21 to 25.

A family ownes poultry operation has a broiler breeder flock of 12,350 hens which produced 72,618 total eggs over a seven day period. The company placed all of the eggs in an incubator and a total of 62,815 chicks hatched and were placed in a broiler house for growout. Following hatch, a total of 4,139 eggs were found to be infertile. On day 47 of age, a total of 61,056 broilers were loaded and transported to the processing plant. During the growout period, the broilers consumed a total of 640,966 lbs of feed with a feed conversion of 1.81. Following processing, the average carcass weight of this flock was 4.34 lbs with an average breast meat weight following deboning of 1.04 lbs.

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

a. 75% b. 79% **c. 84%** d. 87%

22. What is the percent of fertile eggs laid?

a. 5.7% b. 84.2% c. 87.6% **d. 94.3%**

23. What is the hatchability of total eggs set?

a. 83.4% **b. 86.5%** c. 89.1% d. 92.3%

24. What was the mortality rate of this flock of market broilers?

**a. 2.8%**  b. 3.9% c. 4.6% d. 97.2%

25. What was the final live broiler weight of this flock?

a. 5.28 lbs b. 5.67 lbs  **c. 5.8 lbs** d. 6.03 lbs