Texas State Poultry Judging Contest

March 23, 2012

1. The United States broiler industry uses a cross between a White Plymouth Rock and \_\_\_\_\_\_\_ chicken for meat production.
2. Rhode Island Red B. White Leghorn **C**. **Cornish** D.Broad Breasted white
3. How many eggs can you expect to collect per hen in a laying operation during the 52-80 week laying operation?
4. **240-350** B. 104-160 C. 175-230 D. 364-560
5. Turkey growers expect to yield one pound of live bird per how many pounds of feed intake?
6. 2.0 **B**. **2.5** C. 3.0 D. 3.5
7. Which of the following does not belong to the order Galliformes?
8. Chicken B. Turkey C. Pheasant **D. Quail**
9. The scientific name for geese is\_\_\_\_\_
10. **Anser anser** B.Numida meleagridus C. Coturnix coturnix D. Cygnus cygnus
11. Poultry have a high rate of food passage. How long does it take for a layer to pass food through her system from the point of entry to the point of exit?
12. 1.5 hours B.2 hours **C. 2.5 hours** D.4 hours
13. The comb and wattles serve what purpose?
14. Sexing ability B. Regulating blood pressure C. **Temperature regulation** D.Sexual reproduction
15. Feathers originate from distinct tracts known as what?
16. Follicle Openings B. **Pterylae** C.Bumps D. Feather Tracts
17. The major functions of the muscle system in poultry are designed for all of the following, except what?
18. Body form B. Heat generation C. **Blood cell formation** D**.** Flight
19. Which of the following senses is highly developed in fowl?
20. Taste B. Touch C. **Sight** D.Smell
21. This tube contains cartilaginous rings and connects the upper and lower larynxes?
22. Pharynx B. Syrinx C. Bronchi D. **Trachea**
23. Which of the following is defined as the grinding of food?
24. Prehension B. Absorption C. Titration D. **Mastication**
25. Which organ in the digestive tract secretes gastric juices and the enzyme pepsin?
26. **Proventriculus** B.Ventriculus C. Crop D. Pancreas
27. The chicken’s oviduct is how many inches long?
28. **30** B.45 C. 78 D. 107
29. This gland is referred to as the “master gland” because it serves to release hormones that regulates the rest of the endocrine system?
30. Hypothalamus B. Thyroid **C. Pituitary Gland** D. Pancreas
31. Which hormone stimulates broodiness in a laying hen?
32. Follicle Stimulating Hormone B. Luteinizing Hormone C.Oxytocin D. **Prolactin**
33. What serves as the source of nutrients for an embryo during incubation?
34. **Yolk** B**.** Shell membranes C. Chalazea D. Water
35. By what day of incubation are all muscles that will be in an adult chicken in place?
36. 5 B. **10** C**.** 18 D. 21
37. A spike in embryo mortality can be seen around day 4 and day \_\_\_ of incubation.
38. 10 B. 12 **C. 18** D.21
39. What is defined as “any change that can indicate an underlying disease?”
40. Stress Factor B. **Disease sign** C.Disease agent D. Abnormality
41. What type of immunity is defined as the passage of antibodies from hen to chick by way of the egg yolk?
42. Active Immunity B. Acquired Immunity C. Natural Immunity D. **Passive Immunity**
43. Converting organic matter such as poultry manure and dead birds into a more uniform and relatively odorless substance is known as what?
44. Storage B. **Composting** C**.** Treatment D. Collection
45. When composting dead carcasses, how thick of a layer of compost material should be placed between each layer of carcasses?
46. 1 inch B. **4 inches** C.6 inches D. 1 foot
47. On average, for every one day of storage time beyond 6 days, how many hours of incubation are added?
48. 0.5 **B. 1** C. 2 D. 4
49. What orientation should eggs be incubated?
50. **Small end down** B.Large end down C. Small end up D. It does not matter

26. Farmer Dale placed 25,750 day old broilers in one of his broiler houses. At six weeks of age, the live haul crew collected 24,940 broilers to transport to the processing plant. What was the livability of his flock?

a. 3.15% b. 4.82% c. 95.18% **d. 96.85%**

27. A broiler processing facility processed a total of 287,943 chickens in one day of operation with an average live weight of 5.17 pounds per bird. The average carcass weighed 4.12 pounds. Each carcass yielded 1.15 pounds of breast meat. What is the average breast yield per live bird for this day of operation?

**a. 22.24%** b. 27.19% c. 79.69% d. 81.82%

28. Grandma Smith has 80 Production red laying hens at her house. Over the course of a seven day period she had an 80% production rate and her birds consumed 93.71 pounds of feed. What was her feed conversion per dozen eggs laid?

**a. 2.51** b. 2.79 c. 2.99 d. 3.16

29. 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

30. John David Crow, a hatchery manager, set a total of 325,000 eggs in his hatchery. Twenty-one days later 273,330 chicks hatched out and were sent to broiler grow out facilities. A total of 3,435 eggs were found to be infertile. What is the hatchability of fertile eggs set?

a. 1.06% b. 84.10% **c. 84.99%** d. 91.42%