**WF Krueger Memorial**

**March 24, 2012**

1. Broiler breeders are grown to \_\_\_\_\_\_ weeks of age before being moved to replace older breeder birds.
2. 6 B. 12 C. 16 **D. 20**
3. How many flocks of broilers are annually raised on a production farm?
4. 2-3 B. 4-6 C. **5-7** D**.** 10-12
5. Turkeys are raised \_\_\_\_\_\_\_ until 25-30 weeks of age.
6. Straight run B. **Sex separate**  C**.** ½ Male and ½ Female D. 10% Male and 90% Female
7. Poultry belong to the animal kingdom and which class?
8. Airiales B. **Aves** C.Gallus D. Wingdom
9. Poultry bones are unique in the fact that they are\_\_\_\_.
10. Fused B. Jointed C. Solid D. **Hollow**
11. The inner layer of poultry skin is called the what?
12. Epidermis B. **Dermis** C.Subcutis D. Artery layer
13. Which muscle in the avian body flexes the abdomen?
14. Sartorius B. Tres major C. Flexor perforans D. **Obliquus**
15. The sternum refers to the\_\_\_\_?
16. Cervical Bone B. Collar Bone C. **Breast Bone** D**.** Pelvic Bone
17. Which of the following is an area of fused bones within a bird?
18. **Pelvic Bone** B**.** Breast Bone C. Keel Bone D. Jaw Bone
19. Which of the following senses is poorly developed in fowl?
20. Sight B. **Smell** C. Hearing D. Touch
21. What tube lies next to the trachea and connects the mouth to the crop?
22. **Esophagus** B.Larynx C.Duodenum D. Ventriculus
23. The duodenum is the first section of the small intestine and encloses what hormone secreting organ?
24. **Pancreas** B.Hypothalumus C. Gall Bladder D.Liver
25. The two shell membranes are formed in which part of the oviduct?
26. Magnum B. Vagina C. **Isthmus** D. Uterus
27. Which hormone is responsible for the growth and maturation of ovarian follicles?
28. **Follicle Stimulating Hormone** B.Luteinizing Hormone C. Oxytocin D. Prolactin
29. The ovary secretes what hormone to stimulate the development of secondary sex characteristics in females?
30. Testosterone B. Adrenaline C. **Estrogen** D.Oxytocin
31. Cell division in an embryo ends when the egg drops below what temperature?
32. 106°F B. 99°F C. **85°F** D. 55°F
33. The procss of a chick breaking the shell to hatch is known as what?
34. Cracking B. Poking C. **Pipping** D.Breaking
35. What type of disease causing agent can only reproduce within the cell of a host?
36. **Virus** B.Bacteria C. Protozoa D. Fung
37. The frequency of birds displaying signs of sickness and infection is defined as what?
38. **Morbidity** B.Susceptibility C. Mortality D. Affectability
39. What is the typical temperature range (F) seen in a composter?
40. 100-120 B. 125-135 C.**140-160** D.170-180
41. Which of the following is not a factor influencing hatchability at the hatchery?
42. **Bird nutrition** B**.** Chick Handling C. Disease control D. Egg incubation
43. Which of the following is not a factor that influences total incubation time of an egg?
44. **Humidity** B.Incubation temperature C. Age of egg D. Size of egg
45. A broiler carcass that has 1 inch exposed flesh on the back, wing, and breast should be graded a USDA Grade \_\_\_\_.
46. A **B. B** C. C D. No Grade
47. At rest, how many breath exchanges will a turkey make?
48. 10 B. **20** C**.** 30 D. 35
49. The gizzard is also referred to as the muscular stomach and the \_\_\_\_\_\_\_?
50. Proventriculus B.**Ventriculus** C.Teeth D. Crop

A poultry operation has a broiler breeder flock of 17,350 hens which produced 101,407 total eggs over the course of a week long period of which 1018 were deemed unsettable due to checks and other defects. The company placed all of the settable eggs in an incubator and a total of 82,800 chicks hatched. Following hatch, a total of 4,139 eggs were found to be infertile. 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 a 44 day grow out. On day 44 of age, a total of 79,254 broilers with an average live weight of 5.7 lbs were loaded and transported to the processing plant. It was determined that the flock had a feed conversion during grow out of 1.82. During the grow out period, each broiler defecated at a rate equal to its feed consumption. The moisture content of the fecal material was determined to be 78%. Following processing, the average carcass weight of this flock was 4.16 lbs with an average breast meat weight following deboning of 1.04 lbs. During processing, 198 carcasses were condemned and deemed unsellable. The profit margin that the company experienced was $0.05 per lb of carcass weight produced.

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

a. 79.4% **b. 83.5%** c. 86.2% d. 87.3%

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

**a. 3.3%** b. 4.3% c. 95.7% d. 96.7%

23. What is the hatchability of settable eggs set?

a. 81.65% **b. 82.47%** c. 86.03% d. 91.4%

24. How much fecal material was input into the broiler house during grow out of this broiler flock?

a. 111,272.6 lbs b. 352,363.3 lbs c. 641,301.2 lbs **d. 822,181.0 lbs**

25. How much total sellable breast meat was produced with this flock of broilers?

a. 79,159.2 lbs **b. 82,218.2 lbs** c. 82,424.2 lbs d. 85250.8 lbs