

State FFA Poultry Judging Contest
College Station, TX May 4th, 2013

- How many eggs can you expect to collect per hen in a laying operation during the 52-80 week laying operation?
A. **240-350** B. 104-160 C. 175-230 D. 364-560
- A breeder can expect one dozen fertile eggs from how many pounds of feed?
A. 2.0 B. 3.5 C. **7** D. 12
- How big of a bird can a broiler producer expect to grow in 6-7 weeks?
A. **3.5-4.5** B. 5.0-6.0 C. 6.5-7.5 D. 8.0-9.0
- What percentage of turkey production occurs under the contract system?
A. 85% B. 90% C. **95%** D. 99%
- Which of the following does not describe the physiology of poultry?
A. Feathered B. **Two-Chambered heart** C. Biped D. Warm-blooded
- Which of the following does not belong to the order Galliformes?
A. Chicken B. Turkey C. Pheasant D. **Quail**
- The scientific name for geese is _____
A. **Anser anser** B. Numida meleagridus C. Coturnix coturnix D. Cygnus cygnus
- Pectoral muscles account for what percentage of avian total weight?
A. 10-15% B. **15-20%** C. 20-25% D. 25-30%
- Which muscle in the avian body flexes the abdomen?
A. Sartorius B. Tres major C. Flexor perforans D. **Obliquus**
- This tube contains cartilaginous rings and connects the upper and lower larynxes?
A. Pharynx B. Syrinx C. Bronchi D. **Trachea**
- Avian red blood cells are unique in the fact that they contain what?
A. Mitochondria B. Lysozyme C. **Nucleus** D. Air pockets
- What is another name for the glandular stomach?
A. Crop B. Ventriculus C. Isthmus D. **Proventriculus**
- Which of the following is the correct order of the three sections of the small intestine (from the stomach to the large intestine)?
A. Ileum; duodenum; jejunum B. Jejunum; ileum; duodenum
C. **Duodenum; jejunum; ileum** D. Duodenum, Cecum, Colon
- Which section of the digestive track serves to breakdown cell wall materials in the presence of anaerobic bacteria?
A. Duodenum B. **Cecum** C. Large Intestine D. Cloaca
- Which ovary is the only functioning ovary in the female reproductive system?
A. **Left** B. Right C. Both D. Neither
- The chickens oviduct is how many inches long?
A. **30** B. 45 C. 78 D. 107
- The thick white is secreted in what part of the oviduct?
A. Infundibulum B. **Magnum** C. Uterus D. Isthmus

18. Which part of the female reproductive track does egg formation take place longest?
 A. Magnum **B. Uterus** C. Isthmus D. Cloaca
19. The urinary system in a chicken is unique because it lacks what organ?
 A. Spleen B. Kidneys C. Ureters **D. Bladder**
20. Which of the following hormones is responsible for ovulation of the most mature ovum?
 A. Follicle Stimulating Hormone (FSH) **B. Luteinizing Hormone**
 C. Oxytocin D. Prolactin
21. Which hormone stimulates broodiness in a laying hen?
 A. Follicle Stimulating Hormone (FSH) B. Luteinizing Hormone
 C. Oxytocin **D. Prolactin**
22. The ovary secretes what hormone to stimulate the development of secondary sex characteristics in females?
 A. Testosterone B. Adrenaline **C. Estrogen** D. Oxytocin
23. During incubation, what membrane forms under the embryo and collects water from the albumen?
 A. Chorion **B. Amnion** C. Allantois D. Chorioallantoic
24. All of the following are Macro Minerals in feed except?
A. Copper B. Calcium C. Phosphorus D. Magnesium
25. A broiler chicken carcass has 1 inch of exposed flesh on the breast, a broken leg, and has missing meat on the wing. This carcass has a USDA grade of?
 A. NG B. C C. A **D. B**

Mr. Hyatt has six growout houses on his farm. Each house has a maximum capacity of 27,000 broilers. Each house was filled to max capacity for a 47 day time period. 136,808 broilers were loaded out at the end of the growing period, with an average bird weight of 6.25 lbs. During growout these birds consumed 1,840,467 pounds of feed and produced an equal amount of fecal material. This feed cost \$340 per ton. The birds were sent to the processing plant. Each carcass averaged 4.25 pounds, and yielded 1.35 pounds of breast meat and 2.45 pounds of other meat. Mr. Hyatt was able to sell this breast meat for \$2.33 per pound and the other meat products for \$0.88 per pound at the local farmers market. Mr. Hyatt composted the fecal material to sell as added profit at a cost of \$80 per ton. During composting the moisture content of the fecal material was reduced from 75% to 35%.

26. What Mr. Hyatt's percent liveability for this flock of broilers?
 A. 15.6% B. 19.7% C. 80.3% **D. 84.5%**
27. How many pounds of feed were required per pound of weight gain?
 A. 1.67 B. 2.00 **C. 2.15** D. 2.24
28. What was the average breast yield per live bird weight?
 A. 20.0% **B. 21.6%** C. 31.8% D. 39.2%
29. How much money did Mr. Hyatt gain by selling his composted fecal material?
 A. \$25,766.54 **B. \$29,447.47** C. \$55,214.01 D. \$73,618.68
30. What was Mr. Hyatt's profit from this flock of chickens?
 A. \$412,408.22 **B. \$441,855.69** C. \$725,287.61 D. \$754,735.08