

FFA Poultry Career Development Event  
2001 Poultry Judging Contest  
Arkansas State FFA Judging Contest

Circle the best answer for each of the following questions.

1. Which of the following birds does **NOT** belong to the order Galliformes?
  - A. Chicken
  - B. Turkey
  - C. Pheasant
  - D. Goose
  
2. Which of the following is **NOT** a function of the integumentary system?
  - A. Regulation of body temperature
  - B. Flight
  - C. Nutrient distribution
  - D. Development of secondary sexual characteristics
  
3. Which of the following statements about the integumentary system is **FALSE**?
  - A. Skin colors on fowl result from various combinations of pigments in the skin
  - B. Comb type and earlobe color are closely related to the gonadal activity of the bird
  - C. Feathers originate from distinct feather tracts called pterylae
  - D. Molting is not compatible with egg production
  
4. Which of the following statements about the skeletal system is **FALSE**?
  - A. The skeletal system is light because the long bones are hollow and penetrated by extensions of air sacs
  - B. The skeletal system is rigid because of a tendency for bones to accumulate extra strengthening minerals
  - C. The sternum is highly developed to provide attachment for the pectoral muscles
  - D. Another skeletal feature is modification of the forelimbs into wings
  
5. Which of the following birds would be expected to have the darkest breast meat, due to the presence of more \_\_\_\_?
  - A. Goose; myoglobin
  - B. Chicken; carotenoids
  - C. Turkey; carotenoids
  - D. Chicken; myoglobin
  
6. Respiratory system functions include:
  - A. Gas exchange
  - B. Temperature regulation
  - C. Communication
  - D. All of the above

7. Which of the following statements about the avian circulatory systems is **FALSE**?

- A. It functions to transport food, gases, waste and hormones to and from cells
- B. Avian red blood cells, like mammalian red blood cells, lack a nucleus
- C. The circulatory system helps with temperature regulation
- D. The circulatory system aids with disease protection

8. In general, \_\_\_\_\_ have a proportionately shorter digestive tract than \_\_\_\_\_.

- A. Meat and grain eaters; livestock
- B. Chickens; sheep
- C. Grain eating birds; meat eating birds
- D. A and B

9. The stigma is:

- A. An undeveloped ovary
- B. An immature follicle
- C. The nonvascular area on the follicle
- D. The point where the yolk sac attaches to the small intestine

10. The order of segments in a hen's reproductive tract is:

- A. Magnum, infundibulum, isthmus, uterus
- B. Infundibulum, magnum, isthmus, uterus
- C. Ovary, infundibulum, magnum, uterus
- D. Infundibulum, isthmus, magnum, uterus

11. Which of the following is **NOT** a direct cause of infectious disease?

- A. Bacteria
- B. Rickettsiae
- C. Toxic poisons
- D. None of the above

12. Major carriers of infectious agents include:

- A. Diseased birds
- B. Healthy birds that have recovered from the disease
- C. People
- D. All of the above

13. Which of the following is **NOT** a respiratory disease?

- A. Leukosis
- B. Aspergillosis
- C. Mycoplasmosis
- D. Newcastle

14. Which of the following diseases **CANNOT** be controlled by vaccination?
- A. Marek's disease
  - B. Botulism
  - C. Infectious bronchitis
  - D. Newcastle
15. Which of the following waste storage systems is the **LEAST** likely to work at a large layer facility?
- A. Settling tanks
  - B. Dry-stack storage
  - C. Pits
  - D. High-rise storage
16. Lagoons:
- A. Are often used to complement high-rise storage facilities
  - B. Have the advantage of costing less than storage ponds
  - C. Promote the loss of up to 90% of nitrogen, which settles to the bottom of the lagoon
  - D. Have the disadvantage of accumulating settled material if not properly managed
17. Biogas generators:
- A. Require a high level of management
  - B. Generate odorless gases
  - C. Are a practical on-farm alternative, regardless of fuel costs
  - D. Lead to the degeneration of most nutrients
18. Poultry wastes should not be spread within \_\_\_\_\_ of wells and \_\_\_\_\_ of streams.
- A. 0.5 miles;            0.75 miles
  - B. 500 feet;            1,000 feet
  - C. 150 feet;            100 feet
  - D. 100 feet;            50 feet
19. Which of the following is **NOT** a safe, acceptable way of disposing of dead birds?
- A. Incinerator
  - B. Burial
  - C. Composting
  - D. Rendering
20. Proper withdrawal time before processing is:
- A. 6 to 8 hours
  - B. 8 to 12 hours
  - C. 6 to 20 hours
  - D. 1 to 2 hours

21. Poultry must be chilled to \_\_\_\_\_ °F within \_\_\_\_\_.
- A. 32; 4 to 8 minutes
  - B. 40; 20-40 minutes
  - C. 40; 4 to 8 hours
  - D. 50; 5 to 10 hours
22. Which of the following may **NOT** be determined from a psychrometric chart?
- A. Barometric pressure
  - B. Relative humidity
  - C. Dry-bulb temperature
  - D. Grains of moisture per pound of dry air
23. When air is pulled through an evaporative cooling pad, air temperature is lowered because:
- A. Moisture makes the birds feed cooler
  - B. Heat from the air is used to vaporize water, reducing the sensible heat energy content of the air
  - C. Wet air must be cooler than dry air
  - D. None of the above
24. During the winter, air velocity through jets should be:
- A. Low, to reduce the amount of cold air entering the building
  - B. Low, to reduce the amount of moisture entering the building
  - C. High, to promote good mixing and circulation
  - D. A and B
25. During poultry processing, a hard scald:
- A. Uses temperatures of 75 to 100°F for 30-75 seconds
  - B. Leaves the pigmented epidermis intact
  - C. Makes the feathers more difficult to remove
  - D. Promotes better batter adhesion properties
26. The pectoral muscles account for an average of 18% of the total weight of a certain strain of broilers. How many tons (1 ton = 2,000 pounds) of breast meat would be produced on a four-house broiler farm that raises birds to an average weight of 4.8 pounds and raises 6 flocks per year, with 80,000 birds per flock?
- A. 207
  - B. 35
  - C. 1,152
  - D. 312

27. If the average broiler produces 10.8 pounds of manure per year, how many tons (1 ton = 2,000 pounds) of manure would be produced on a one-house farm that raises 6 flocks of broilers per year, with 20,000 birds per flock?
- A. 108
  - B. 346
  - C. 648
  - D. 1,000
28. One pound of air at 60°F can hold 77 grains of water, and one pound of air at 70°F can hold 110 grains of water. If air at 60°F was saturated (100% relative humidity), and the temperature of the air increased to 70°F without any extra moisture being added, what would be the relative humidity of the 70°F air?
- A. 60%
  - B. 70%
  - C. 83%
  - D. 100%
29. In the winter the ventilation requirement for a 5 pound bird is 2.6 CFM (cubic feet per minute) per bird. How many total cubic feet of air would be moved per hour in a house containing 20,000 birds with an average weight of 5 pounds?
- A. 52,000 cubic feet
  - B. 520,000 cubic feet
  - C. 312,000 cubic feet
  - D. 3,120,000 cubic feet
30. For summer ventilation, 1 square foot of evaporative cooling pad is needed for every 250 CFM (cubic feet per minute) of air moved. If an evaporative cooling pad measures 7.5 feet by 40 feet, how many birds may be kept in the house if the ventilation requirement is 5.0 CFM per bird.
- A. 10,000 birds
  - B. 15,000 birds
  - C. 20,000 birds
  - D. 25,000 birds

**2001**  
**FFA State Poultry Exam**

1. d
2. c
3. b
4. b
5. a
6. d
7. b
8. d
9. c
10. b
11. c
12. d
13. a
14. b
15. b
16. d
17. a
18. c
19. b
20. b
21. c
22. a
23. b
24. c
25. d
26. a
27. c
28. b
29. d
30. b