

2016 Iowa State Poultry Judging CDE Written Exam

1. What percent of broiler production occurs under a contract system?
 - a. 50%
 - b. 75%
 - c. 99%
 - d. 44%
2. Which segment of the digestive system secretes the enzyme pepsin?
 - a. Liver
 - b. Proventriculus
 - c. Gall Bladder
 - d. Ventriculus
3. All parts of a chick are distinguishable by what day of incubation?
 - a. 3
 - b. 6
 - c. 10
 - d. 18
4. Increased mortality at days ____ and ____ of hatching is considered normal
 - a. 2,12
 - b. 4,18
 - c. 9,18
 - d. 7,15
5. What ratio should calcium to phosphorus be in the diet
 - a. 1-1
 - b. 2-1
 - c. 3-1
 - d. 4-1
6. What is a major benefit in using Air Chilling to cool poultry carcasses?
 - a. Efficiency
 - b. Costs
 - c. Reduction in bacterial contamination
 - d. Yields
7. Which of the following is most likely connected to late hatching chicks?
 - a. High setter temperature
 - b. Small sized eggs
 - c. Nutritional deficiencies
 - d. Low Hatcher temperature
8. What state produced 45,000,000 turkeys in 2010 and is currently ranked first?
 - a. Missouri
 - b. North Carolina
 - c. Minnesota
 - d. Arkansas
9. After five days of storage, hatchability is decreased by how much per day?
 - a. .05-1%
 - b. 1-2%
 - c. 2-4%
 - d. 5-6%

10. Which of the following is a unit of light used in the poultry industry?
 - a. Lux
 - b. Sun Equivalency Unit
 - c. PSI
 - d. Ohm
11. Which is not regulation or guidelines that effect the layer industry?
 - a. Egg products inspection law
 - b. The egg safety rule
 - c. HACCP
 - d. Incredible egg law
12. What is the recommended **minimum** time to begin preheating a broiler barn in preparation for chick arrival?
 - a. 5 hours
 - b. 10 hours
 - c. 24 hours
 - d. 72 hours
13. What is the general temperature settings for starting turkey poults?
 - a. 100-105°F at floor level, 75°F Room temp
 - b. 90-95°F at floor level, 75°F Room temp
 - c. 90-105°F at floor level, 90°F Room temp
 - d. 90-95°F at floor level, 90°F Room temp
14. What kind of operation has the goal to produce fertile eggs for the table egg industry?
 - a. Egg pullet operation
 - b. Egg laying operation
 - c. Egg breeder operation
 - d. Egg processing operation
15. Turkey producers are often paid based on:
 - a. Pounds of birds produced
 - b. Number of birds produced
 - c. Efficiency of the producer
 - d. B and C
16. The majority of commercial light hybrid layers are derived from:
 - a. Rhode Island Reds
 - b. White Leghorns
 - c. Cornish
 - d. Plymouth Rocks
17. Which hormone is influenced by the dark-light cycle and causes ovulation?
 - a. Luteinizing hormone
 - b. Oxytocin
 - c. Follicle stimulating hormone
 - d. Prolactin

18. Started by Henry A. Wallace, what Iowa based genetics company developed hybridized layer chicks?
 - a. Dekalb Poultry Research
 - b. Lohman
 - c. Cobb Vantress
 - d. Hy-line
19. Modern poultry diets are formulated based primarily on what?
 - a. Digestible Energy
 - b. Total Dietary Nutrients
 - c. Gross Energy
 - d. Metabolizable energy
20. Which of the following senses is the **Least** developed in poultry?
 - a. Touch
 - b. Smell
 - c. Sight
 - d. Hearing
21. What is the correct position for an embryo in an egg?
 - a. Head pointed towards small end
 - b. Feet above head
 - c. Head outside wing
 - d. Head tucked under right wing
22. Comparatively, _____ is a grain used in greater levels in Europe than in the US as a poultry feedstuff. It also improves pellet quality.
 - a. Wheat
 - b. Barley
 - c. Oats
 - d. Corn
23. Currently, what is the typical method of stunning before processing in the US?
 - a. Controlled-atmosphere stunning
 - b. Electrical Current
 - c. Stunning is not used.
 - d. Hypnotizing
24. What breed of duck is used almost exclusively in commercial duck production?
 - a. Mallard
 - b. Cornish
 - c. Magpie
 - d. Pekin
25. Which of the following is the correct order of genetic flow in commercial turkey production?
 - a. Multiplier breeder, primary breeder, commercial production,
 - b. Primary breeder, multiplier breeder, commercial production
 - c. Commercial production, multiplier breeder, primary breeder
 - d. Slaughter and processing, consumption, multiplier breeder, primary breeder

26. A brown egg layer eats roughly .26 lbs. feed/hen/day. For a house of 250,000 brown egg layers, how many pounds of corn will the house consume during one week? Assume the diet is 67 % corn.
- 250,000 lbs.
 - 455,000 lbs.
 - 304,850 lbs.
 - 180,050 lbs.
27. A backyard flock started the week with 10 hens. Unfortunately, 3 hens were lost to a predator during the 4th night of the week. The production was 55 eggs. What was the hen day egg production for the week?
- 100 %
 - 90 %
 - 85 %
 - 79 %
28. A producer wishes to provide 2 CFM per pound of body weight. His house is at capacity with 5,000 toms, averaging 40.20 lbs. What is the total airflow required in CFMs to meet the desired CFMs per pound of body weight?
- Ventilation not required
 - 4200 CFMs
 - 10,000 CFMs
 - 402,000 CFMs
29. What should the maximum population of 8 pound market broilers be for a 40ft X 500ft broiler house if the desired stocking density is 1.14 ft² per bird?
- 2000
 - 15540
 - 17544
 - 21930
30. A producer has raised his birds at a density of .86 square feet per bird. The average body weight is 6 pounds. What was the density of birds in the house expressed as pounds per square foot?
- 6.9
 - 8.0
 - 5.16
 - 5.5

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KEY**

Question #	Answer	Reference Pg. #
1	C	C-4
2	B	C-22
3	C	C-32
4	B	C-35
5	B	C-96
6	C	C-111
7	D	C-131
8	C	C-145
9	A	C-122
10	A	C-179
11	D	C-182
12	C	C-133
13	B	C-151
14	C	C-2
15	B	C-5
16	B	C-91
17	A	C-26
18	D	Common Knowledge
19	D	C-98
20	B	C-19
21	D	C-35
22	A	C-99
23	B	C-108
24	D	C-195
25	B	C-147
26	C	C-175
27	B	C-177
28	D	C-153
29	C	C-132
30	A	Conversion

*Poultry CDE Manual 2012