

FFA Poultry Career Development Event
2004 NEO Aggie Day

1. With regard to egg storage, which of the following statements is FALSE?
 - A. The longer the egg storage time, the higher the egg storage temperature should be
 - B. Eggs should be collected and transported to the hatchery at least twice a week
 - C. Gas exchange occurs through pores in the egg shell during storage
 - D. Carbon dioxide diffuses out of the egg while in storage
 - E. An egg loses water vapor while in storage

2. _____ is calculated by dividing the number of eggs that hatch as live chicks by the number of fertile eggs set.
 - A. Percent fertility
 - B. Egg fertility
 - C. Percent hatchability
 - D. Percent mortality
 - E. None of the above

3. Which of the following statements regarding incubation is FALSE?
 - A. Eggs must be turned to prevent the embryo from sticking to the shell membranes
 - B. In a multi-stage machine, temperature should remain constant
 - C. Earlier or later egg transfer causes lower hatchability
 - D. Eggs should be set with the small (pointed) end down
 - E. In single-stage incubation, temperature should remain constant

4. A term that describes groups of breeds that have common characteristics is:
 - A. Variety
 - B. Class
 - C. Breed
 - D. Bantams
 - E. Family

5. Space requirements for male and female broiler breeders grown together in litter floor poultry houses should allow no more than one mature bird per:
 - A. 5.5 square feet
 - B. 3.8 square feet
 - C. 2.4 square feet
 - D. 0.5 square feet
 - E. None of the above

6. Which of the following statements regarding brooding management are FALSE?
- A. Hot air brooding systems prevent the dehydration of chicks
 - B. If chicks huddle together and sound distressed, it is too cool
 - C. If chicks congregate away from the brooders, it is too cool
 - D. A and B
 - E. A and C
7. The unit of luminous intensity of a light source in a specified direction is known as:
- A. Lux
 - B. Footcandle
 - C. Available lumen
 - D. Candela
 - E. None of the above
8. Which of the following statements is TRUE?
- A. Brown eggs are more nutritious than white-shelled eggs
 - B. Yolk color is a very important factor in the nutritional value of eggs
 - C. Cloudy whites are a result of mineral contamination
 - D. The older the egg, the easier it is to remove the shell after boiling
 - E. Green yolks are an indication that an egg was not boiled long enough
9. Which of the following statements regarding free-range poultry production is FALSE:
- A. Yolk and skin color will have a green tint due to consumption of green pigments
 - B. There should not be any breast blisters on the birds
 - C. There will be fewer cases of respiratory problems
 - D. The chickens will stay cleaner
 - E. None of the above
10. Which of the following is NOT an advantage of using separate sex feeding in the broiler breeder laying house?
- A. Improved fertility
 - B. Increased mortality
 - C. Improved hatchability
 - D. Improved body weight control in older males
 - E. Reduced foot and leg problems

11. Which of the following statements regarding hot weather management of broiler breeders is FALSE?
- A. Overcrowding should be avoided
 - B. Electrolytes should not be added to the water
 - C. Feed as early in the morning as possible
 - D. Provide maximum air movement through the flock
 - E. None of the above
12. With regard to market egg quality, which of the following statements is TRUE?
- A. The first eggs of a clutch have poorer shell quality than eggs later in the clutch
 - B. Market eggs should be held in a room with low humidity
 - C. The longer the period of egg production, the better the shell quality
 - D. The higher the environmental temperature, the better the shell quality
 - E. Diseases usually do not have an effect on eggshell quality
13. Plymouth Rock and Cornish breeds are in the _____ and _____ class, respectively.
- A. American Mediterranean
 - B. English American
 - C. American Asiatic
 - D. American English
 - E. English Mediterranean
14. Which of the following statements about game birds is TRUE?
- A. Ringneck pheasants originated in northern Europe
 - B. Coturnix (Japanese) quail are very fast growing and are raised for eggs or meat
 - C. Chukar partridges are the most commonly raised game birds in the U.S.
 - D. Bobwhite quail are only found in the desert Southwest
 - E. None of the above
15. Which of the following factors that influence hatchability is the responsibility of both the breeder farm and the hatchery?
- A. Egg fertility
 - B. Disease control
 - C. Egg storage
 - D. A and B
 - E. B and C

16. Which of the following are evaporative cooling systems that may be used in market broiler houses?
- A. In-ground heat transfer system
 - B. Pad or filter system
 - C. Low pressure fogger nozzles
 - D. All of the above
 - E. B and C
17. Which of the following statements regarding biosecurity and sanitation is FALSE?
- A. Barns and equipment should be sanitized between every other flock
 - B. Litter should come from credible sources and checked for contamination
 - C. An all-in/all-out program should be used whenever possible
 - D. Drivers of service vehicles should not be allowed to step outside their vehicles
 - E. grass, weeds, feed spills and standing water should be eliminated
18. Which of the following disinfectants is commonly used for sanitizing eggs AND drinking water in poultry houses?
- A. Chlorine
 - B. Ammonia
 - C. Iodine
 - D. Halogen
 - E. All of the above
19. Which of the following statements is NOT a disadvantage for caged hen egg production?
- A. Flies are usually more of a nuisance
 - B. More fragile bones
 - C. Higher percentage of blood spots
 - D. Higher investment per pullet
 - E. Dirtier eggs
20. A fundamental rule in providing lighting to broiler breeders is to never _____ duration or intensity of light during the _____ period.
- A. Decrease growing
 - B. Increase production
 - C. Decrease starter
 - D. Increase growing
 - E. None of the above

21. Bruises lead to approximately _____% of carcass downgrades in the processing plant.
- A. 10-20
 - B. 25
 - C. 30-35
 - D. 50-60
 - E. None of the above
22. Market turkey toms are usually grown to _____ weeks of age and market hens to _____ weeks of age.
- A. 28-30 16-18
 - B. 20-22 16-18
 - C. 10-12 14-16
 - D. 6-8 8-10
 - E. Any of the above
23. Market turkey toms usually have a _____ body weight and _____ feed conversion than market turkey hens.
- A. Lower; Lower
 - B. Higher; Lower
 - C. Lower; Higher
 - D. Higher; Higher
 - E. A or B
24. Hormones involved in egg production include FHS and LH, which are released from the:
- A. Ovary
 - B. Testes
 - C. Adrenal gland
 - D. Pituitary gland
 - E. Thyroid gland
25. Which of the following is NOT a disease for which egg-strain pullets are usually vaccinated?
- A. Marek's Disease
 - B. Newcastle
 - C. Fowl Pox
 - D. Bronchitis
 - E. Fatty liver disease

26. Flock uniformity is very important for broiler breeders, and is usually represented by evaluating the number of birds within 15% of the average weight. For a growing flock, 20 birds were weighed, and the total weight was 32 pounds. Uniformity should be estimated by calculating the percentage of sample weights that fall between _____ and _____ pounds.
- A. 17 23
 - B. 27.2 36.8
 - C. 1.36 1.84
 - D. 1.53 2.07
 - E. None of the above
27. A market broiler house measures 40 feet wide by 600 feet long, and the stocking density is 0.75 square feet per bird. How many broilers are in the house?
- A. 18,000 broilers
 - B. 24,000 broilers
 - C. 28,000 broilers
 - D. 32,000 broilers
 - E. None of the above
28. A hatchery sets a total of 48,500 fertile eggs, and 43,234 chicks hatch. If the total number of eggs produced is 50,000, what is the percent hatchability and the percent fertility?
- A. 86.5% 87.5%
 - B. 88.3% 92.0%
 - C. 89.1% 97.0%
 - D. 97.0% 99.1%
 - E. None of the above
29. A flock of 150,000 laying hens were housed. On one day during the laying period, there were 148,575 hens still alive, and 142,500 eggs were produced. What was hen-housed egg production on that day?
- A. 99.1%
 - B. 95.9%
 - C. 95.0%
 - D. 94.5%
 - E. None of the above
30. What would be the final cumulative feed conversion for a flock of 5,000 male turkeys that consumed a total of 165 tons of feed (1 ton = 2,000 pounds), had an average body weight of 28 pounds?
- A. 2.36
 - B. 1.95
 - C. 1.87
 - D. 1.54
 - E. 0.68