

FFA Poultry Career Development Event
2000 Poultry Judging Contest
Arkansas State FFA Judging Contest

Contestant Name: _____

Contestant ID: _____

1. The per capita egg consumption is:
 - A. 100 eggs per year
 - B. 234 eggs per year
 - C. 315 eggs per year
 - D. 427 eggs per year
 - E. 519 eggs per year

2. In 1995, per capita consumption of poultry meat was:
 - A. 5 lbs
 - B. 25 lbs
 - C. 100 lbs
 - D. 200 lbs
 - E. Less than in 1970

3. On a breeder farm, which of the following factors influence hatchability?
 - A. Shell pigment
 - B. Chick processing
 - C. Bird/ Egg fertility
 - D. Bird Management
 - E. Both C & D

4. Which of the following is NOT an effect of extended egg storage?
 - A. Extended incubation time
 - B. Depressed Hatchability
 - C. Depressed broiler weights
 - D. Egg shell pigment fades
 - E. None of the above

5. The purpose of “buggy bags” in a hatchery are to:
 - A. Maintain a local environment of higher humidity around the egg
 - B. Prevent the escape of Carbon Dioxide
 - C. Collect egg waste and or broken eggs
 - D. Transport live birds
 - E. Protect eggs from mold growth

6. Incubator ventilation serves which purposes?
- A. Supply oxygen and moisture required by eggs
 - B. Remove carbon dioxide and excess heat
 - C. Prevent embryo from sticking to shell membrane
 - D. Increase K & Increase the presence of C₆ H₁₂ O₆ in yolk.
 - E. A and B
7. Which practices are used when administering water to baby chicks?
- A. Provide water at room temperature immediately before chick arrival
 - B. Ensure all drinkers work properly
 - C. Distribute drinkers evenly throughout the brooding area
 - D. Maintain correct water levels
 - E. All of the above
8. At an average of 85% hatchability, what percentage of eggs will be infertile or contain dead chicks?
- A. 0.15%
 - B. 15%
 - C. 25%
 - D. 30%
 - E. 100%
9. How much extra time would be required to incubate 8-day-old eggs with an average size of 2.4 ounces? Assume that each day's storage beyond 5 days increases incubation time by 1 hour, and each 0.1 ounce beyond 2.1 ounces increases incubation time by 30 minutes.
- A. 9 hours, 12 minutes
 - B. 8 hours, 15 minutes
 - C. 8 hours, 9 minutes
 - D. 3 hours, 9 minutes
 - E. 4 hours, 12 minutes
10. A temperature of 85-90°F should be maintained during brooding, and the temperature should be reduced each week until attaining a temperature of ____ to ____ °F.
- A. 20-25°F
 - B. 90-95°F
 - C. 65-70°F
 - D. 80-85°F
 - E. 35-40°F

11. To minimize dehydration after transporting chicks long distances a _____ solution should be added to water for the first 2-3 days.
- A. Sugar
 - B. Salt
 - C. Potassium
 - D. Highly chlorinated
 - E. Calcium
12. Prior to water vaccination dry _____ should be used in water lines to neutralize chlorine residue.
- A. Oyster shell
 - B. Skim Milk
 - C. Sodium Chloride
 - D. Powered sugar
 - F. Potassium chromate
13. Water restriction to stressed birds should not occur if the house temperature exceeds _____°F.
- A. 25
 - B. 55
 - C. 70
 - D. 85
 - E. 105
14. Coccidiosis may be controlled in a broiler breeder house by administering:
- A. Coccidiosis eye drops
 - B. Coccidiosis vaccine
 - C. Potassium in the water
 - D. A coccidiostat in the feed
 - E. B & D
15. If daily average in-house temperatures are below 68°F the flock should receive an additional 2.5 kilocalories of energy per bird daily for each degree below 68°F. If the average in house temperature is 65°F how many additional kilocalories should be supplied?
- A. 7.5
 - B. 9.5
 - C. 15
 - D. 3.75
 - E. 2.5

16. When collecting hatching eggs:
- A. Belts should be run in the morning to clear any debris
 - B. Belts should be run frequently to minimize the accumulation of eggs on the belt
 - C. Belts should be run frequently to eliminate adverse egg temperatures
 - D. All of the above
 - E. None of the above
17. Which animals should be considered when developing a pest control program in a broiler house?
- A. Rats
 - B. Mice
 - C. Wild Birds
 - D. Flies
 - E. All of the Above
18. When selecting a type of litter which characteristic does NOT need to be considered?
- A. Availability
 - B. Scent
 - C. Economics
 - D. Freshness
 - E. Suitability
19. Which of the following brooding types would provide birds a central heat source and access to cooler unheated areas?
- A. Localized
 - B. Whole house
 - C. Partial House
 - D. None of the above
 - E. All of the Above
20. The two most popular feeding programs used most widely today include:
- A. A starter ration and a withdrawal ration.
 - B. A pre-starter and a grower ration.
 - C. A starter ration, a grower ration and a withdrawal ration.
 - D. A & B
 - E. A & C
21. To reduce downgrades at the processing plant when catching and loading broilers catch crew should:
- A. Carry 15-20 birds per hand
 - B. Carry birds by the wings
 - C. Use red lights in the house
 - D. Catch birds in large groups to reduce bird confusion
 - E. C & D

22. When cleaning up a broiler house after flock removal which procedures should be followed?
- A. Spray an insecticide immediately after birds are removed and then spray a disinfectant while the house is still wet
 - B. Bring in cats to kill any remaining mice or rats
 - C. Fumigate while building is still wet from cleaning the house
 - D. Completely bury dead from previous flock in the litter prior to new flock arrival
 - E. None of the Above
23. When comparing the different rations for turkey breeders differences can be seen in:
- A. Protein requirements as the poults increase in age/size
 - B. Energy level requirements as the poults increase in age/size
 - C. Other nutrient levels as the poults increase in age/size
 - D. Nutrient and energy levels of rations for hen and toms at increasing ages and sizes
 - E. All of the above
24. The percentage of Grade A Large and better eggs produced by commercial egg-strain pullets should be:
- A. 25%
 - B. 30%
 - C. 75%
 - D. 95%
 - E. 100%
25. Cage egg-strain pullets require 40 square inches of floor space per bird from 5 to 20 weeks of age. To house 20 pullets, which of the following cage dimensions would be appropriate?
- A. 20 x 20 inches
 - B. 20 x 40 inches
 - C. 20 x 100 inches
 - D. 25 x 40 inches
 - E. None of the above
26. If egg-strain pullets are not at or near their target body weight:
- A. They should be sold and a new flock should be started
 - B. They should be switched to a broiler diet to promote more rapid weight gain
 - C. They should remain on the same diet until reaching the prescribed age/weight range
 - D. They should not be allowed to produce eggs
 - E. None of the above

27. If hatchability of eggs at an altitude of 3,250 feet is 80%, and hatchability of eggs at an altitude of 8,200 feet is 60%, how many more eggs are needed at the higher altitude to produce a total of 100 chicks?
- A. 42
 - B. 20
 - C. 125
 - D. 167
 - E. The number of eggs needed is the same
28. Broilers are being provided 0.35 lbs of feed per bird on feed days of a 5-2 feeding program. How many pounds of feed will each bird consume in a week?
- A. 0.35 lbs
 - B. 1.00 lbs
 - C. 1.75 lbs
 - D. 2.00 lbs
 - E. 2.45 lbs
29. To prevent growth and bacteria in incubators:
- A. Outer egg surfaces must be free from contamination
 - B. Hatch reports should be kept
 - C. Room surfaces, equipment, incubators should be clean and sterile
 - D. Hatchery supervisors should supervise all workers
 - E. A & C
30. Ventilation systems should ensure that air moves in the _____ direction as the eggs (that is, from setters to hatches) to prevent cross contamination by fluff.
- A. Constant
 - B. Same
 - C. Opposite
 - D. Airflow patterns are insignificant.
 - E. B & C

KEY for state exam

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