**Poultry Test Bank 1**

**MULTIPLE CHOICE**

 1. The Top 7 turkey producing states represent 70% of the US turkey supply in 2010. Which state does not belong in that Top 7 group?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Minnesota | c. | Sorth Carolina |
| b. | North Carolina | d. | Virginia |

ANS: C PTS: 1

 2. Which of the following is not a segment of the table egg industry?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Egg Breeder Operations | c. | Egg Processing Operations |
| b. | Egg Pullet Operations | d. | Egg Broiler Operations |

ANS: D PTS: 1

 3. How is the yolk of a day-range or free-range bird different from the yolk of a cage raised hen?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | The yolks will be a darker color | c. | The yolks will be larger |
| b. | The yolks will be a lighter color | d. | There is no yolk difference between the types of birds |

ANS: A PTS: 1

 4. What is a settable egg?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | No double yolks or damaged shells | c. | Can be stood on either end and not tip over |
| b. | Sinks when placed in a cup of water | d. | No amswer choice is correct |

ANS: A PTS: 1

 5. Where can you receive a Poultry Science degree in the state of Alabama?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Auburn University | c. | University of South Alabama |
| b. | University of Alabama | d. | Troy University |

ANS: A PTS: 1

 6. Which of the following poultry species does not belong in the order Galliformes:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Guinea fowl | c. | Pheasant |
| b. | Geese | d. | Turkey |

ANS: B PTS: 1

 7. “Poultry, when compared to other livestock, have unique anatomical and physiological characteristics.” Which of the following does not apply to poultry?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | High respiration rate | c. | Modification of hind limbs into wings |
| b. | Lightweight skeleton | d. | High rate of food passage |

ANS: C PTS: 1

 8. Which of the following chicken parts does not belong with the others:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Hackle | c. | Spur |
| b. | Shank | d. | Web |

ANS: A PTS: 1

 9. Select the best answer to fill in the blank: “Proper cleaning removes over \_\_\_\_% of disease organisms, even without disinfectants.”

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10 | c. | 81 |
| b. | 50 | d. | 95 |

ANS: D PTS: 1

 10. Select the True statement:

|  |  |
| --- | --- |
| a. | Egg size is mostly determined by genetics but can be influenced by some management practices |
| b. | Egg size is mostly determined by management practices by can be influenced by genetics |
| c. | Egg size is only determined by genetics |
| d. | Egg size is determined only by management practices |

ANS: A PTS: 1

 11. The presence of visible blood cells during candling indicates that you are looking at what type of egg:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | An infertile egg | c. | A healthy embryo  |
| b. | An embryo that died early in incubation | d. | Not enough information given  |

ANS: C PTS: 1

 12. Which hormone stimulates oviposition (laying of eggs)?

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  Follicle Stimulating Hormone (FSH) | c. | Oxytocin  |
| b. | Luteinizing Hormone (LH) | d. | Procatin |

ANS: C PTS: 1

 13. Which statement is not true about transferring eggs from the setter to hatcher trays?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Eggs are removed from the setter and transferred after 18 days | c. | To maximize free movement of the chicks at hatching, eggs are kept vertical  |
| b. | Earlier or later transfer causes lower hatchability | d. | Eggs in wet hatcher trays will cool rapidly as the water evaporates |

ANS: C PTS: 1

 14. Which option is not an advantage of a movable pasture unit?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Birds stay cleaner | c. | Birds spread their natural fertilizer |
| b. | Birds require a longer grow out | d. | Not as costly as a permanent building |

ANS: B PTS: 1

 15. 8,500 of 9,000 eggs brought into a hatchery are fertile and incubated. If 7,500 of the eggs hatch, what is the percent hatchability?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 94% | c. | 83% |
| b. | 88% | d. | 1.13% |

ANS: C PTS: 1

 16. What is the mean weight for the following group of leghorn-type pullets:

2.5lbs 3.1lbs 2.0lbs. 2.2lbs 1.9lbs 2.3lbs 2.2lbs 3.0lbs 2.6lbs 2.5lbs

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  2.2 lbs | c. | 2.43 lbs |
| b. |  2.4 lbs | d. | 2.5 lbs |

ANS: C PTS: 1

 17. Your broiler house uses a radiant heat brooding system. You’ve just received your chicks and notice they are wedging themselves behind the hover and chirping. What does this mean about your brooder?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | It is too hot | c. | This is normal behavior |
| b. | It is too cold | d. | It is too drafty |

ANS: D PTS: 1

 18. Which of the following statements is true about broiler starter feed:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Crumbles/pellets are preferred over a mash feed  | c. | There is no difference, they have the same affect |
| b. | Mash is preferred over crumbles/pellets | d. | Neither of these is desired for broiler starter feed |

ANS: A PTS: 1

 19. Most turkey meat producers grow around 62,500 birds 3.5 times per year. About how many birds would one production unit produce in 12 months?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1,000,000 | c. | 2,187,500 |
| b. | 1,875,000 | d. | Not enough information provided |

ANS: C PTS: 1

 20. When preparing to receive a flock of chicks, at what point should you start pre-heating the house:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | In the first 24 hours before arrival | c. | Not until they have been delivered and get settled |
| b. | I24-36 hours before arrival  | d. | Only after the first night |

ANS: B PTS: 1

 21. Factor(s) that influence the total incubation time of eggs:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Egg Incubation temperature | c. | Egg Storage |
| b. | Egg Handling | d. | Disease Control  |

ANS: A PTS: 1

 22. Which characteristic is not found in poultry?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | High body temperature | c. | High rate of food passage |
| b. | High pulse rate | d. | High bone density  |

ANS: D PTS: 1

 23. Xanthophyll is associated with which part of the bird?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Feathers | c. | Shanks |
| b. | Duodenum | d. | Hypotarsal |

ANS: C PTS: 1

 24. At 8 weeks, your broiler weighs 8 lbs and consumes 16 lbs of feed/week. The approximate feed conversion for your bird would be:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1.0 | c. | 2.0 |
| b. | 1.5 | d. | 2.5 |

ANS: C PTS: 1

 25. What is the species name for the domestic chicken?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Gallus gallus  | c. | Gallus anser |
| b. | Meleagris gallipavo | d. | Cygnus gallus |

ANS: A PTS: 1

 26. For an average turkey producer, feed makes up 70% of the total cost of production. If the average annual total is $1,250,000 – how much of that is spent on feed?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $17,857,142 | c. | $875,000  |
| b. | $1,785,714 | d. | $87,500 |

ANS: C PTS: 1

 27. Brooding refers to the period of poultry’s life from \_\_\_\_ to \_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Day 1 – Day 42  | c. | 24 weeks - 30 weeks |
| b. | Day 42 – Day 60  | d. | The last two weeks of life |

ANS: A PTS: 1

 28. The five largest egg-producing states represent approximately 45% of all U.S. eggs; which of the following is not one of those top producing states?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | California | c. | Pennsylavania |
| b. | Illinois | d. | Indiana |

ANS: B PTS: 1

 29. In regards to poultry shows or selling breeding stock, NPIP stands for:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | New Production & Innovative Products | c. | National Properties of Industry Principles |
| b. | National Poultry Improvement Plan | d. | Natural Poultry Imported Products |

ANS: B PTS: 1

 30. A pronounced thin spot gives an egg a grade of:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | AA/A Quality | c. | Nongradable |
| b. | B Quality | d. | AAA quailty |

ANS: B PTS: 1

 31. The commercial egg industry is responsible for providing:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | fertilized eggs | c. | chicks |
| b. | infertile eggs | d. | pullets |

ANS: B PTS: 1

 32. What is a cockeral?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Parent Bird | c. | Production level male |
| b. | Production level female | d. | An automatic cull |

ANS: C PTS: 1

 33. Leghorn - strain pullet farms, birds are raised from hatchlings to appriximately \_\_\_\_\_ to \_\_\_\_ weeks of age.

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  10 to 13 weeks of age | c. | 16 to 17 weeks of age |
| b. | 13 to 15 weeks of age | d. | 18 to 19 weeks of age |

ANS: C PTS: 1

 34. For Egg laying operations the goals are to produce on average of ten dozen table eggs for every \_\_\_\_\_\_ to \_\_\_\_\_ pounds of feed provided

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1.0 to 1.5  | c. | 3.0 to 3.5  |
| b. | 2.0 to 2.5  | d. | 4.0 to 4.5  |

ANS: C PTS: 1

 35. Table eggs are processed at facilities that

|  |  |  |  |
| --- | --- | --- | --- |
| a. | wash and grade eggs | c. | grade and sort eggs |
| b. | wash, grade and sort eggs | d. | sterilize, grade and sort eggs |

ANS: B PTS: 1

 36. The commercial broiler industry uses a white feathered bird that is a cross between

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Cornish and White Plymouth Rock | c. | White Cornish and Plymouth Rock |
| b. | Cornish and White Leghorn | d. | Cornish and White Rhode Island Rock |

ANS: A PTS: 1

 37. On boiler breeder pullet and cockerel farm, birds are raised form \_\_\_\_\_\_\_\_ to approximately \_\_\_\_ weeks of age

|  |  |  |  |
| --- | --- | --- | --- |
| a. | hatchlings to 15 weeks  | c. | hatchlings to 25 weeks  |
| b. | hatchlings to 20 weeks  | d. | hatchlings to 30 weeks  |

ANS: B PTS: 1

 38. What are broilers?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | female chickens grown for meat production | c. | refers to all chickens |
| b. | a grouping or classification of chicken that is used to produce eggs | d. | male and female chickens grown for meat production |

ANS: D PTS: 1

 39. The turkey industry uses

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Broad Breasted White Birds | c. | Broad Breasted Bronze Birds |
| b. | Broad Breasted Black Birds | d. | Broad Breasted Royal Palm |

ANS: A PTS: 1

 40. A Tom marketed at 21 weeks of age typically weighs?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 20 lbs | c. | 40 lbs |
| b. | 30 lbs | d. | 50 lbs |

ANS: C PTS: 1

 41. A typical grow out facility for a turkey operation is?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10,000 - 12,000 birds | c. | 14,000 to 16,000 birds |
| b. | 12,000 to 14,000 birds` | d. | 16,000 to 18,000 birds |

ANS: D PTS: 1

 42. What percentage of eggs worldwide are involved in the export trade?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2% | c. | 6% |
| b. | 4% | d. | 8% |

ANS: A PTS: 1

 43. What country is the largest egg producer?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | United States | c. | China |
| b. | India | d. | Japan |

ANS: C PTS: 1

 44. What is the top producing egg state?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Mississippi | c. | Arkansas |
| b. | Iowa | d. | Alabama |

ANS: B PTS: 1

 45. Baby chicks start out with a cover of down and replace this with the first set of feathers by \_\_\_\_ week.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2 weeks | c. | 4 weeks  |
| b. | 3 weeks | d. | 5 weeks |

ANS: D PTS: 1

 46. Almost \_\_\_\_ of all replacement egg-type chickens are raised in cages.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 20% | c. | 40% |
| b. | 30% | d. | 50% |

ANS: D PTS: 1

 47. In Floor Brooding the humidity should be \_\_\_\_\_ to \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 20% to 40% | c. | 40% to 60% |
| b. | 40% to 50% | d. | 50% to 60% |

ANS: C PTS: 1

 48. In Floor Brooding, increased humidity helps to prevent?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | dehydration | c. | dehydratiion and respiratory issues |
| b. | respiratory issues | d. | respiratory issues and viruses |

ANS: C PTS: 1

 49. On day 1 a pullet will be vaccinated for which disease?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Newcastle | c. | Larngotracheitis |
| b. | Marek’s | d. | Fowl pox |

ANS: B PTS: 1

 50. Permanant beak trimming is successful if performed on chicks between \_\_\_ to \_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2 to 7 days | c. | 10 days to 17 days |
| b. | 7 to 10 days | d. | 17 days to 27 days |

ANS: B PTS: 1

 51. Pullets need to start with \_\_\_\_ to \_\_\_\_\_ continuous and bright light during the first week of age.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10 to 13 hours  | c. | 20 to 22 hours  |
| b. | 15 - 17 hours | d. | 24 hours of light |

ANS: C PTS: 1

 52. If 80% of the birds weigh within 10% of the mean weight, flock uniformity is?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | superior | c. | average |
| b. | optimum | d. | not evident |

ANS: B PTS: 1

 53. What is the international measure of illumination?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Lumen | c. | Lux |
| b. | Watt | d. | Candela |

ANS: C PTS: 1

 54. The egg, as laid at \_\_\_\_\_\_\_, normally has no air cell.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 98.6 º F | c. | 103.1º F |
| b. | 101º F | d. | 105º F |

ANS: D PTS: 1

 55. Which class of chicken produce white shelled eggs?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | English | c. | Mediterranean |
| b. | European | d. | Asian |

ANS: C PTS: 1

 56. When soft scalding birds prior to picking, the water temperature should be \_\_\_\_\_\_ degrees.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 143-150 | c. | 123-130 |
| b. | 153-160 | d. | 133-140 |

ANS: C PTS: 1

 57. In commercial poultry, malformation and malposition of incubating eggs account for a decrease in overall hatchability by approximately what percentage?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5% | c. | 15% |
| b. | 10% | d. | 20% |

ANS: A PTS: 1

 58. Which of the following statements is most correct?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Today, 20-30% of the chickens sold in the U.S. are sold as whole birds. | c. | By 2000, about 56% of poultry meat produced was exported |
| b. | Consumers became more aware of dietary fat and cholesterol levels during the 1950's. | d. | None of the above |

ANS: D PTS: 1

 59. Seven-day old broiler chick weight is an excellent indicator of brooding success. This weight should be what in relation to one-day old chick weight?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2 to 3 times more | c. | gain back to chick hatching weight |
| b. | 4 to 5 times more | d. | None of the answers listed above are correct. |

ANS: B PTS: 1

 60. Feed should be withdrawn at least \_\_\_\_\_\_\_\_ hours before slaughter.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10-12 | c. | 6-8 |
| b. | 12-14 | d. | 8-10 |

ANS: D PTS: 1

 61. Most broilers are grown

|  |  |  |  |
| --- | --- | --- | --- |
| a. | in continuous light with a period of darkness provided daily. | c. | in total darkness to reduce energy usage |
| b. | in continuous light. | d. | with lighting intensity of a minimum of 20 lux. |

ANS: A PTS: 1

 62. Which grade of bird can have 1 disjointed and 1 non protruding broken bone?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | B | c. | C |
| b. | no grade | d. | A |

ANS: A PTS: 1

 63. The bones of a bird’s wing tips, which correspond to bones in the digits of the human hand, are called

|  |  |  |  |
| --- | --- | --- | --- |
| a. | phalanges. | c. | patellas. |
| b. | phalanxes. | d. | pubium. |

ANS: A PTS: 1

 64. An infertile egg is called a .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | dud | c. | clear |
| b. | leaker | d. | yellow |

ANS: C PTS: 1

 65. Manure can produce toxic gasses.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | true | b. | false |

ANS: A PTS: 1

 66. Unhatched chicks should be ground up and destroyed.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | true | b. | false |

ANS: A PTS: 1

 67. A healthy broiler will reach a weight of \_\_\_\_\_\_ lbs. in \_\_\_\_\_ weeks.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3.50, 8 | c. | 12.5, 19 |
| b. | 4.25, 7 | d. | 3.75, 6.5 |

ANS: B PTS: 1

 68. The growing period for pullets spans from .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 6-8 weeks | c. | 180 days |
| b. | 1 day to 20 weeks | d. | 20-24 weeks |

ANS: B PTS: 1

 69. A good leghorn hen will produce \_\_\_\_\_\_\_\_ eggs per year

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 75-100 | c. | 285-310 |
| b. | 900-1000 | d. | 205-260 |

ANS: C PTS: 1

 70. Egg transmission is the major mode of transmission for which of the following diseases?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | fowl pox | c. | aspergillosis |
| b. | infectious coryza | d. | mycoplasmosis |

ANS: D PTS: 1

 71. Which of the following is accurate for egg laying flocks?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Flocks are not uniform in weight early in their production life tend to remain uneven. | c. | If 80% of the flock weighs within 10% of the flock’s mean weight, flock uniformity is optimal. |
| b. | Common causes of lack of flock uniformity include crowding, improper beak trimming, disease, and inadequate nutrient intake. | d. | All of these conditions of an egg laying flock are accurate. |

ANS: D PTS: 1

 72. In the fowl, the lungs are connected to large, thin-walled

|  |  |  |  |
| --- | --- | --- | --- |
| a. | viscera. | c. | air sacs. |
| b. | air cells. | d. | pulmonic reservoirs/pulmonary cavities. |

ANS: C PTS: 1

 73. The onset of sexual maturity (egg laying) in growing pullets of egg laying strains depends on certain requirements or criteria. The criteria include

|  |  |  |  |
| --- | --- | --- | --- |
| a. | minimum age and body weight. | c. | adequate nutrient consumption, including energy. |
| b. | constant or increasing day length of at least 12 hrs. | d. | All of the criteria listed above are necessary for the onset of sexual maturity in pullets. |

ANS: D PTS: 1

 74. Manure in pit storage will produce .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | hydrogen | c. | carbon monoxide |
| b. | oxygen | d. | hydrogen sulfide |

ANS: D PTS: 1

 75. The gizzard grinds feed.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | fine | c. | whole |
| b. | coarse | d. | pelleted |

ANS: B PTS: 1

 76. In which section of the oviduct of the hen would fertilization take place?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | vagina | c. | infundibulum |
| b. | uterus | d. | cloaca |

ANS: C PTS: 1

 77. A microscopic single celled plant form found in manure is .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | bacteriological | c. | bacteriostatic |
| b. | bacterin | d. | bacteria |

ANS: D PTS: 1

 78. You should expect an analysis of the calcium content of broiler and turkey manure to range from about

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1.0% to 2.5%. | c. | 0.01% to 0.05%. |
| b. | 3.3% to 4.8%. | d. | 7.2% to 8.4%. |

ANS: A PTS: 1

 79. The US poultry industry consists of

|  |  |  |  |
| --- | --- | --- | --- |
| a. | commercial egg laying | c. | breeders, hatching egg producers |
| b. | pullet growing | d. | all are correct |

ANS: D PTS: 1

 80. In 2005, the annual per capita consumption of poultry in the United States was

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 45% of all meat consumed. | c. | 51 pounds per capita. |
| b. | more than the pounds of beef and pork (added together) consumed. | d. | None of the above answers is correct. |

ANS: D PTS: 1

 81. Morbidity rate is the

|  |  |  |  |
| --- | --- | --- | --- |
| a. | rate of death loss in a flock of birds. | c. | percentage of healthy birds minus the rate of mortality in a flock |
| b. | frequency of birds in a flock displaying signs of disease. | d. | None of the answers listed above are correct |

ANS: A PTS: 1

 82. Which of the following feed types is preferred for broiler chicks during the first few weeks of feeding?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mash | c. | pellet |
| b. | crumbles (fine to coarse) | d. | crystals |

ANS: B PTS: 1

 83. A bird’s body has natural resistance or immunity to infection. Compared to turkeys, chickens' reduced susceptibility to blackhead is related to immunity.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Inherited immunity. | c. | Passive immunity. |
| b. | Acquired immunity. | d. | Sustainable |

ANS: A PTS: 1

 84. A properly designed and operated fan and pad cooling system can keep a building’s temperature lower than the outdoor temperature.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10°F TO 20°F | c. | 20°F TO 30°F |
| b. | 15°F TO 25°F | d. | 25°F TO 30°F |

ANS: B PTS: 1

 85. Newly arrived chicks need \_\_\_\_\_\_ 2-3 hours before feeding.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | heat | c. | light |
| b. | water | d. | disinfectant |

ANS: B PTS: 1

 86. An unusually large variation in hatch time was reported for eggs from the same farm. The eggs were placed in the same incubator cabinet at the same time. Which of the following factors might have caused this outcome?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | uneven pre-warming | c. | some of the eggs had darker tint |
| b. | improper sealing of the eggs prevented carbon monoxide (CO) loss | d. | vibration and noise |

ANS: A PTS: 1

 87. If using trough waterers, chicks need \_\_\_\_\_\_\_ inches per bird.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1 | c. | 3 |
| b. | 2 | d. | 4 |

ANS: A PTS: 1

 88. What secretes hormones that regulate utilization of minerals.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | adrenals | c. | parathyroid |
| b. | pituitary | d. | thyroid |

ANS: A PTS: 1

 89. US Broilers are primarily a cross between a Cornish male and \_\_\_\_\_\_\_\_\_\_\_ females.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Rhode Island Red | c. | White Plymouth Rock |
| b. | White Leghorn | d. | Barred Rods |

ANS: C PTS: 1

 90. Eggs stored \_\_\_\_\_\_ days will have depressed broiler weight.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10 | c. | 18 |
| b. | 12 | d. | 14 or more |

ANS: D PTS: 1

 91. Breast meat is white in color because of low levels of \_\_\_\_\_\_\_\_ pigment.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | myoglobin | c. | carenoid |
| b. | melanic | d. | melanin |

ANS: A PTS: 1

 92. In the fowl, air sacs

|  |  |  |  |
| --- | --- | --- | --- |
| a. | function as sites of gaseous exchange. | c. | are unique to birds and certain reptiles. |
| b. | function as the voice box. | d. | determine the interior quality of an egg |

ANS: C PTS: 1

 93. Which of the following selection criteria is not considered when evaluating broiler breeders for future meat production?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | finish | c. | length of muscling in the breast |
| b. | blindness in one eye or both eyes | d. | depth of muscling in the breast |

ANS: A PTS: 1

 94. Disease control measures (biosecurity) include which of the following practices?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | reducing contact between birds and infectious organisms | c. | strengthening the bird’s defenses against invasion by infectious organisms |
| b. | maintaining sanitary conditions | d. | All answers are disease control practices. |

ANS: D PTS: 1

 95. Symptoms of include swelling of the hock joints, slipped tendons, and severe shortening of the long bones.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | rockets | c. | tibial dyschondraplasia |
| b. | perosis | d. | none are correct |

ANS: B PTS: 1

 96. GHGs) associated with animal production are

|  |  |  |  |
| --- | --- | --- | --- |
| a. | carbon monoxide, methane, and nitrous oxide. | c. | carbon dioxide, methane, and nitrous oxide. |
| b. | carbon dioxide and ammonia. | d. | None of the gases listed above are major contributors to the “Carbon Footprint” of the food animal industry. |

ANS: C PTS: 1

 97. Pathogens are

|  |  |  |  |
| --- | --- | --- | --- |
| a. | harmful micro-organisms that are infectious and cause diseases. | c. | any birds presenting symptoms of disease. |
| b. | carriers that transmit infective agents. | d. | any departure from health with a specific cause and signs, including such conditions in poultry. |

ANS: A PTS: 1

 98. The pectoral muscles account for \_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_ of a bird’s total weight.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10 to 15% | c. | 20 to 25% |
| b. | 15 to 20% | d. | 25 to 30% |

ANS: B PTS: 1

 99. Light hover heater hours before the birds arrive.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 4 | c. | 8 |
| b. | 12 | d. | 24 |

ANS: D PTS: 1

 100. The portion of the bird's body in which the intestinal, urinary, and generative canals emit discharge is .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | chorion | c. | chalazae |
| b. | cloaca | d. | rectum |

ANS: B PTS: 1

 101. Which of the following is a potential advantage of using cage laying systems for table egg production?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | floor eggs are eliminated | c. | internal parasites are diminished |
| b. | eggs are cleaner | d. | All of these statements are potential advantages. |

ANS: D PTS: 1

 102. Incubators/setters draw air from the

|  |  |  |  |
| --- | --- | --- | --- |
| a. | room they operate in | c. | outdoors |
| b. | canisters | d. | ground |

ANS: A PTS: 1

 103. Which of the following incubator conditions have been established as best for yielding good chick hatch rates?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Set with the small (pointed) end down, and turned hourly through 45 degree either side of the vertical. | c. | Set on side, rolled hourly especially early during incubation, and turned to at least 180 degree to either side. |
| b. | Set on side, turned hourly especially during early incubation, and turned to at least 45 degree either side of vertical. | d. | Set end with air cell to bottom, turned hourly especially during early incubation, and turned to at least 45 degree either side of vertical. |

ANS: A PTS: 1

 104. A in a broiler breeder is defined as a serious body defect that a bird could transmit to its offspring.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | confirmation | c. | quality |
| b. | deformity | d. | none of the above |

ANS: B PTS: 1

 105. . What determine(s) to what temperature air can be cooled by the evaporation of water.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Wet bulb temperature | c. | Relative humidity |
| b. | Dry bulb temperature | d. | Thermostatic controls |

ANS: A PTS: 1

 106. Poultry waste stored in pits may be kept for days before spreading.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 75-100 | c. | 90-120 |
| b. | 120-160 | d. | 30-40 |

ANS: C PTS: 1

 107. What were domesticated by the Aztecs in Mexico more than 2000 years ago; on their arrival in Europe, they were called \_\_\_\_\_\_\_\_\_\_\_\_ similar to other exotic birds entering Europe in the 16th century.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Numida meleagris; guinea fowl | c. | Meleagris gallopavo; turkeys |
| b. | Gallus gallus; jungle fowl | d. | Columbia livia; pigeons |

ANS: C PTS: 1

 108. Remove brooder guards when chicks are \_\_\_\_\_\_\_\_\_ days of age and have been debeaked.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 7 | c. | 9 |
| b. | 6 | d. | 8 |

ANS: A PTS: 1

 109. How many pound(s) of feed is needed to produce a dozen eggs in a typical white shell egg laying operation?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1.8 to 2 pounds | c. | 3.0 to 3.5 pounds |
| b. | 3.5 to 5 pounds | d. | 2.8 to 3.2 pounds |

ANS: C PTS: 1

 110. Which of the following statements is not accurate regarding the air sacs of a bird?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | The air sacs appear to function like bellows. | c. | The air sacs aid in efficient circulation of air through the lungs. |
| b. | The air sacs have intense areas and concentrations of blood vessels. | d. | The air sacs are unique to birds and certain reptiles. |

ANS: B PTS: 1

 111. Feed is reduced to laying birds when production does not increase on a \_\_\_\_\_\_\_\_ basis.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | monthly | c. | weekly |
| b. | annual | d. | semi-annual |

ANS: C PTS: 1

 112. Raising \_\_\_\_\_\_\_\_ as a poultry enterprise is gaining popularity.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Game birds | c. | Turkeys |
| b. | Ducks | d. | Geese |

ANS: A PTS: 1

 113. The liver secretes bile which is needed for the absorption of .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | fat | c. | sugars |
| b. | protein | d. | carbohydrate |

ANS: A PTS: 1

 114. The table egg industry includes egg laying operations, pullet rearing operations, and farms that produce eggs from which egg laying pullets are obtained.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | broiler | c. | poult |
| b. | breeder | d. | pullet |

ANS: B PTS: 1

 115. A processed broiler produces a lb. carcass

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2-3 | c. | 4-5 |
| b. | 1-2 | d. | 3-4 |

ANS: A PTS: 1

 116. Avian red blood cells are

|  |  |  |  |
| --- | --- | --- | --- |
| a. | similar to mammalian red blood cells. | c. | part of the endocrine system. |
| b. | nucleated. | d. | transport wastes and toxins only. |

ANS: B PTS: 1

 117. An inflammatory process involving mucus membranes characterized by an increased flow of mucus describes

|  |  |  |  |
| --- | --- | --- | --- |
| a. | a disease symptom known as caseous caruncle syndrome or CCS | c. | a disease symptom known as catarrhal |
| b. | a disease symptom known as serous cataracts | d. | a disease symptom know as a watery viscosity condition or WVC |

ANS: C PTS: 1

 118. The vaccine to prevent Marek’s disease is applied by

|  |  |  |  |
| --- | --- | --- | --- |
| a. | placing it in drinking water or by using a spray cabinet. | c. | wing/web application. |
| b. | eye drop. | d. | subcutaneous injection. |

ANS: D PTS: 1

 119. Loss of birds due to leg disorders in broilers is only 1%, but may reach \_\_\_\_\_\_\_\_ in turkeys.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 25 | c. | 10 |
| b. | 33 | d. | 15 |

ANS: B PTS: 1

 120. Which answer below is not a main function of the bird’s urinary system?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | filtration of water and other substances from the blood | c. | excretion or secretion of waste products of metabolism |
| b. | transport of endocrine secretions | d. | absorption and reabsorption of body water, glucose, sodium, and other substances |

ANS: B PTS: 1

 121. What procedure might be performed on the male breeder chick in the hatchery that could later maximize fertility and reduce injury to breeding hens when these birds mate?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | clip back toe nails | c. | vaccination |
| b. | comb dubbing | d. | none of the above |

ANS: A PTS: 1

 122. In terminology describing standard purebred chickens, the word breed refers to

|  |  |  |  |
| --- | --- | --- | --- |
| a. | groups of poultry identified as having the same color or comb type. | c. | area of origin. |
| b. | groups of poultry having the same general shape. | d. | the taxonomic class aves. |

ANS: B PTS: 1

 123. Career opportunities in the poultry industry

|  |  |  |  |
| --- | --- | --- | --- |
| a. | include opportunities not only directly in poultry production but in related industries, such as pharmaceuticals, genetics, nutrition, engineering, and agribusiness. | c. | require in-depth and specific training eliminating the need for a general background understanding of poultry science. |
| b. | are limited in opportunity for diverse careers and college trained personnel | d. | None of the career information listed above is associated with the poultry industry. |

ANS: A PTS: 1

 124. What % of broiler production is contracted by large companies.

a. 50

b. 25

c. 99

d. 75

72. How many breeder males are started per 100 females?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10-15 | c. | 15-20 |
| b. | 5 | d. | 12-15 |

ANS: D PTS: 1

 125. Under optimal conditions how many healthy and vigorous broiler breeder males are needed per 100 female breeders, early in the laying cycle?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | l0 to 11 | c. | 8 to 9 |
| b. | 100 | d. | l2 to 15 |

ANS: A PTS: 1

 126. Which of the following parts of a dressed broiler is not included in the giblets?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | heart | c. | kidney |
| b. | gizzard | d. | neck |

ANS: C PTS: 1

 127. Proper cleaning is especially critical in poultry production. are effective against bacteria and partially effective against fungi and viruses as a water sanitizing agent.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | quaternary ammonium compounds | c. | hypochlorites |
| b. | cresol compounds | d. | iodophors |

ANS: A PTS: 1

 128. Temperature of scald water can vary depending on how the final product will be used. Parameters for scalding will vary depending on the systems used. Fast food restaurants commonly use birds that have been hard-scalded in which temperature range?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 120°F to 136°F | c. | 132°F to 136°F |
| b. | 123°F to 130°F | d. | 138°F to 140°F |

ANS: C PTS: 1

 129. Which part of the digestive system produces insulin?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | small intestine | c. | cecum |
| b. | cloaca | d. | large intestine |

ANS: A PTS: 1

 130. What Start feed restriction on pullets at two weeks of age when 100 birds consume lbs. of feed a day.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 7 | c. | 9 |
| b. | 6 | d. | 8 |

ANS: C PTS: 1

 131. Which of the following statements is accurate regarding the anatomy and physiology of avians?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Avian red blood cells are nucleated. | c. | Avians excrete highly concentrated urine as urea. |
| b. | Avians have a urinary bladder. | d. | Both a and b are correct answers. |

ANS: A PTS: 1

 132. Eggs loose \_\_\_\_\_\_\_\_\_ and water through the shell.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | carbon dioxide | c. | hydrogen |
| b. | nitrogen | d. | oxygen |

ANS: A PTS: 1

 133. Which of the following factors would most likely reduce hatchability?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | degree latitude | c. | relatively high altitude |
| b. | all of the above | d. | gravitational acceleration |

ANS: C PTS: 1

 134. Which of the following would be foreign material in a chicken patty?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | non-food material | c. | filler material |
| b. | unpalatable items | d. | non-food material and unpalatable items |

ANS: D PTS: 1

 135. During cleaning, washing a turkey house with high-pressurized water will typically remove at least \_\_\_\_\_\_\_ percent of the residual microbial contaminants.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10 to 20 | c. | 90 to 95 |
| b. | 40 to 50 | d. | 100 |

ANS: C PTS: 1

 136. In turkey operations, growers produce young turkeys, .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | that are only male | c. | that are only female |
| b. | usually of either sex | d. | all choices are correct |

ANS: B PTS: 1

 137. Mechanical feeders should cover the entire house in minutes.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5 | c. | 1 |
| b. | 30 | d. | 10 |

ANS: A PTS: 1

 138. An average broiler house of 40' X 400' will house birds.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 7,000 | c. | 20,000 |
| b. | 3,000 | d. | 10,000 |

ANS: C PTS: 1

 139. Which species has short digestive systems?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | swine | c. | sheep |
| b. | cattle | d. | poultry |

ANS: D PTS: 1

 140. The bird’s wing tip includes which bones?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | phalanxes | c. | phalanges |
| b. | ulna and radius | d. | All of the bones listed above are found in the wing tips of birds. |

ANS: C PTS: 1

 141. Signs of perosis include swelling of the hock joints, slipped tendons, and severe shortening of long bones. Insufficient amounts of the trace minerals \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_ produce a perosis-type condition in birds.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | zinc; manganese | c. | niacin; choline |
| b. | copper; zinc | d. | magnesium; zylene |

ANS: A PTS: 1

 142. Lighting for pullets and cockerels must stimulate \_\_\_\_\_\_\_\_\_ before it increases feed intake.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | drinking | b. | reproduction |

ANS: B PTS: 1

 143. Which of the following is not a part of a chicken’s skeleton?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | trapezius | c. | ilium |
| b. | ilium | d. | maxilla |

ANS: A PTS: 1

 144. When shipping chicks, the in box temperature should be \_\_\_\_\_\_\_ degrees.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 90 | c. | 100 |
| b. | 86 | d. | 75 |

ANS: A PTS: 1

 145. Commercial egg laying operations use \_\_\_\_\_\_ strain hens.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Leghorn | c. | Rhode Island |
| b. | Plymouth Rock |

ANS: A PTS: 1

 146. Which of the following statements about poultry processing is most correct?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Grading of poultry is mandatory. | c. | The temperature to which poultry must be chilled during processing is 34°F. |
| b. | Inspection of poultry is mandatory. | d. | All of the above answers are correct. |

ANS: B PTS: 1

 147. Pullets being raised for table egg production are raised from hatching to \_\_\_\_\_\_ in their growing facilities.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 18 to 20 weeks of age | c. | 13 to 14 weeks of age |
| b. | 16 to 17 weeks of age | d. | about 27 weeks of age or peak production |

ANS: B PTS: 1

 148. Which membrane of the egg must the spermatozoan penetrate for fertilization of a poultry egg to occur?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | inner shell membrane | c. | blastoderm membrane |
| b. | vitelline membrane and penetrate the blastodisc. | d. | vaginal membrane |

ANS: B PTS: 1

 149. For the evaporative cooling system of fans and wet pads to work well in a poultry building, which condition is a requirement?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | The building should be no more than 400 feet long. | c. | The cooling system’s water should be chilled before being (re)circulated. |
| b. | Blasts of high velocity air into the building are necessary for proper bird cooling. | d. | The building needs to be sealed tightly except for the fan and pad areas. |

ANS: D PTS: 1

 150. Approximately 95% of \_\_\_\_\_\_ production and 99% of \_\_\_\_\_\_ production occurs under a contract system.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | broiler breeder; table egg | c. | table egg; broiler breeder |
| b. | broiler; turkey | d. | Turkey; broiler |

ANS: D PTS: 1

 151. Typical hatcher temperature is \_\_\_\_\_\_ F.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 86.5 | c. | 100 |
| b. | 98.8 | d. | 101.5 |

ANS: B PTS: 1

 152. Cervical vertebrae are commonly known as \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | back bones | c. | neck bones |
| b. | rib bones | d. | any spinal bone |

ANS: C PTS: 1

 153. What regulates sugar metabolism in the body?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | estrogen | c. | progesterone |
| b. | insulin | d. | testosterone |

ANS: B PTS: 1

 154. The unusual part of the fowl urinary system is the absence of a \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | bladder | c. | liver |
| b. | gall bladder | d. | kidney |

ANS: A PTS: 1

 155. What \_\_\_\_\_\_ % of egg type chickens are reared in cages.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 40 | c. | 60 |
| b. | 30 | d. | 50 |

ANS: D PTS: 1

 156. What is the percent hatchability of 1,800 chicks hatched from 2,000 incubated eggs?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 60% | c. | 80% |
| b. | 70% | d. | 90% |

ANS: D PTS: 1

 157. A flour based batter can only be \_\_\_\_\_\_ % of a finished chicken patty.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10 | c. | 30 |
| b. | 20 | d. | 40 |

ANS: C PTS: 1

 158. If the air exchange in a building removes too little water, the walls will become \_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | dry | c. | wet |
| b. | hot | d. | damp |

ANS: C PTS: 1

 159. A low producing hen has a long molting period, lasting up to \_\_\_\_\_\_\_ weeks.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 14 | c. | 18 |
| b. | 16 | d. | 20 |

ANS: C PTS: 1

 160. Cereal grains are primarily added to poultry feed as a source of metabolizable energy but contribute some protein. Which grain should be limited to no more than one-half of the total grain content of an animal feed, including poultry rations?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | barley | c. | grain sorghum |
| b. | corn | d. | wheat |

ANS: D PTS: 1

 161. Poultry meat production, processing, and distribution have undergone many changes in the past 50 years as a result of consumer demand for poultry products. In 1962, the National Chicken Council (NCC) estimated 83% of the chicken marketed in the United States was sold as whole birds. In 2015, the NCC estimates that only \_\_\_\_\_\_\_ of the market will be whole birds.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2% | c. | 49% |
| b. | 11% | d. | 40% |

ANS: B PTS: 1

 162. Eggs should be warmed to \_\_\_\_\_\_\_\_\_ degrees prior to incubation.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 93F / 56C | c. | 50F / 17C |
| b. | 110F / 62C | d. | 72F / 23C |

ANS: D PTS: 1

 163. In turkey grow-out operations,

|  |  |  |  |
| --- | --- | --- | --- |
| a. | most turkeys are raised in large open range facilities. | c. | male and female poults are separated and taken to separate grow-out farms. |
| b. | most farms utilize the Broad Breasted Bronze turkey. | d. | most turkey farms have a capacity of 1600 to 1800 birds. |

ANS: C PTS: 1

 164. Which of the following vaccinations is given to egg-strain (commercial), pullet chicks via subcutaneous injection to the back of the neck while at the hatchery?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Newcastle/Infectious bronchitis | c. | Laryngotracheitis (LT) |
| b. | Marek’s disease | d. | Fowl pox |

ANS: B PTS: 1

 165. Which of the following statements is most correct?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Evaporative cooling works effectively in most of the United States. | c. | Evaporative cooling is not economical in most poultry operations. |
| b. | Evaporative cooling and tunnel ventilation are not compatible. | d. | Evaporative cooling is not effective for feathered poultry. |

ANS: A PTS: 1

 166. What grade of bird may have the wing tips and tail missing?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | A | c. | C |
| b. | B | d. | no grade |

ANS: A PTS: 1

 167. Laying pullets need to be weighed at 7 and \_\_\_\_\_\_ weeks of age.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 14 | c. | 12 |
| b. | 15 | d. | 13 |

ANS: B PTS: 1

 168. Which of the following is not true regarding per capita consumption of meat in the United States in 2005?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Poultry meat consumption exceeded the combined consumption of both beef and pork. | c. | Poultry meat consumption exceeded pork. |
| b. | Poultry meat consumption exceeded beef. | d. | 35% of all meat consumed in the United States in 2005 was poultry. |

ANS: A PTS: 1

 169. Allowing broiler/breeder pullets to use perches will encourage them to \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | lay in nests | c. | eat grit |
| b. | exercise | d. | feed |

ANS: A PTS: 1

 170. Increasing day length beyond \_\_\_\_\_\_\_\_ hours is of questionable economic benefit.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 18 | c. | 17 |
| b. | 19 | d. | 24 |

ANS: C PTS: 1

 171. The correct brooder heat setting should be determined by which of the following conditions?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | remote sensing | c. | rate of propane usage |
| b. | temperature and chick behavior | d. | infra-red imaging |

ANS: B PTS: 1

 172. If you use the drinking water to vaccinate a flock of broiler breeders en masse, you should consider which of the following conditions?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | flock health status | c. | the vaccine’s application instructions |
| b. | whether sanitizers or disinfectants are present in the water lines | d. | All of the conditions should be considered. |

ANS: D PTS: 1

 173. Cell division in the blastoderm of the developing or freshly laid fertile egg stops when t

|  |  |  |  |
| --- | --- | --- | --- |
| a. | the egg enters the oviduct from the infundibulum. | c. | the temperature of the egg drops below 85°F. |
| b. | the shell membranes are deposited and engulf the thick albumen. | d. | None of the answers are correct, because a fertile egg must be incubated for cell division to occur. |

ANS: C PTS: 1

 174. Which of the following steps is recommended to prevent shock of the embryo and condensation on the eggs during transfer for setting in an incubator?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Maintain proper storage conditions in the egg haul truck. | c. | Adjust a pre-warming time depending on egg storage temperature in the egg storage room for up to a maximum total time of 6 hours, as more time would shock the embryos. |
| b. | Pre-warm the eggs for a minimum 6 hours with proper air circulation. | d. | Pre-warming of the eggs is not necessary as incubation temperature is best controlled by the incubator control system. |

ANS: B PTS: 1

 175. In avian embryology, \_\_\_\_\_\_\_\_ are the blocks of mesoderm on both sides of the notochord that later develop into skin, muscle, and skeletal structures of the chick.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | blastodiscs | c. | vestigial vertebrae |
| b. | somites | d. | oocytes |

ANS: B PTS: 1

 176. Which of the following statements about the evaluation of laying hens is most correct?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Molting rate is an indication of handling quality. | c. | Handling quality refers to the flightiness of the hen. |
| b. | Feathers of high producing hens maybe frayed, ragged, dirty and dull. | d. | Molting rate is an indication of pigmentation. |

ANS: B PTS: 1

 177. Turkey buildings usually house \_\_\_\_\_\_\_ birds.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 16-18 thousand | c. | 18-20 thousand |
| b. | 50 thousand | d. | 2 thousand |

ANS: A PTS: 1

 178. A foot candle is a measurement of \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | light | c. | energy |
| b. | heat | d. | chemical |

ANS: A PTS: 1

 179. What is the name of the small, oil-secreting gland located under the skin at the rear of the bird’s back immediately before the main tail feathers?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | ischium | c. | pygostyle |
| b. | uropygial | d. | scent gland |

ANS: B PTS: 1

 180. The egg yolk contents are retained by the \_\_\_\_\_\_\_\_\_ membrane and the blastodisc is attached to it.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | inner | c. | chalazae |
| b. | vitaline | d. | vitelline |

ANS: D PTS: 1

 181. Which of the following would be considered an appropriate weight for 100 newly hatched broiler chicks?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | approximately 4 pounds | c. | approximately 18 pounds |
| b. | approximately 9 pounds | d. | approximately 25 pounds |

ANS: B PTS: 1

 182. Chicks are hatching with some difficulty and many are sticky and some have shell fragments stuck to their wings and back. Which condition most likely contributed to this problem?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | odd shaped eggs | c. | washing eggs in hot water |
| b. | genetic defects | d. | incubator temperature too high (day 20 to day 21) |

ANS: D PTS: 1

 183. Oxygen percentage of air is \_\_\_\_\_\_\_ %.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 21 | c. | 30 |
| b. | 19 | d. | 26 |

ANS: A PTS: 1

 184. Which of the following statements about evaporative cooling pads is most correct?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Evaporative cooling pads should be installed as close as possible to exhaust fans. | c. | Ideally, evaporative cooling pads should be installed along the complete length of the building. |
| b. | Evaporate colling pads function best if the pad is supplied with more water than is actually evaporated. | d. | The cooling capacity of an evaporative cooling pad can be significantly increased by the use of pre-chilled water. |

ANS: B PTS: 1

 185. Which of the following statements about removing (or “pulling”) chicks from a commercial hatcher is correct?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Chicks should be removed immediately after separating from their shells. | c. | All chicks should remain in the hatcher until they have dried completely. |
| b. | It is feasible to remove chicks individually as they begin to dry. | d. | Chicks are ready to be removed when most are dry and a few (5%) still have some moisture on the backs of their necks. |

ANS: D PTS: 1

 186. The \_\_\_\_\_\_\_\_ secretes a hormone that regulates calcium levels of the blood.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Pancreas | c. | Thyroid |
| b. | Pituitary | d. | Parathyroid |

ANS: D PTS: 1

 187. The shedding of old feathers is known as \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | shed | c. | feather fall |
| b. | molt | d. | feather drop |

ANS: B PTS: 1

 188. Dry bulb temperature is measured with a \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | humidistat | c. | humidor |
| b. | thermometer | d. | humidifier |

ANS: B PTS: 1

 189. Commercial egglaying operations produce

|  |  |  |  |
| --- | --- | --- | --- |
| a. | fertile eggs | c. | infertile eggs for human consumption |
| b. | infertile eggs |

ANS: C PTS: 1

 190. The first part of a hens body to bleach after the hen starts to lay is the \_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | vent | c. | top of toe |
| b. | base of beak | d. | eye ring |

ANS: A PTS: 1

 191. A 6' hover area will house \_\_\_\_\_\_\_ birds.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 450 | c. | 500 |
| b. | 550 | d. | 350 |

ANS: C PTS: 1

 192. Which of the following is the recommended minimum floor space for tom turkey poults from 43 days of age to market?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3 square feet per bird | c. | 1 square foot per bird |
| b. | 5 square feet per bird | d. | 1.5 square feet per bird |

ANS: B PTS: 1

 193. The incubation period for a duck egg is \_\_\_\_\_\_ days.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 24 | c. | 32 |
| b. | 20 | d. | 28 |

ANS: D PTS: 1

 194. Pullets raised in blackout conditions should not be light stimulated until they are \_\_\_\_\_\_\_ weeks of age.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 19 | c. | 42 |
| b. | 10 | d. | 37 |

ANS: A PTS: 1

 195. What light color depresses male fertility?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | blue/green | c. | red/orange |
| b. | yellow | d. | red |

ANS: D PTS: 1

 196. Rickets caused by lack of \_\_\_\_\_\_\_ of bone, results from a deficiency of calcium, phosphorus, or vitamin D.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | ossification | c. | petrification |
| b. | calcification | d. | mineralization |

ANS: D PTS: 1

 197. The various species of poultry belong to the class Aves. Which of the following common types of poultry is a member of the order Anseriformes?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | ducks | c. | turkeys |
| b. | chickens | d. | pheasant |

ANS: A PTS: 1

 198. A setter is used for the first \_\_\_\_\_\_\_ days of incubation.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 18-19 | c. | 8-10 |
| b. | 20-22 | d. | 10-12 |

ANS: A PTS: 1

 199. Some consumers prefer to buy table eggs with brown shells. Brown-shelled eggs are usually more expensive because

|  |  |  |  |
| --- | --- | --- | --- |
| a. | they are healthier. | c. | they are produced by birds that are less efficient than White Leghorns. |
| b. | they taste better. | d. | they have to be imported from countries that raise birds that lay brown-shelled eggs. |

ANS: C PTS: 1

 200. Sperm cells can survive for several \_\_\_\_\_\_\_ in the hens body.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | days | c. | months |
| b. | hours | d. | weeks |

ANS: D PTS: 1

 201. Which of the following is the most important when evaluating egg type hens?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | plumage | c. | vigor |
| b. | comb and wattles | d. | pigment |

ANS: D PTS: 1

 202. The invulgies is more commonly known as the .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | crop | c. | isthmus |
| b. | jejunum | d. | proventriculus |

ANS: A PTS: 1

 203. What \_\_\_\_\_\_% of all table eggs are commercially produced by caged hens in large houses.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 90 | c. | 70 |
| b. | 100 | d. | 80 |

ANS: A PTS: 1

 204. All water vaccine should be consumed in \_\_\_\_\_\_\_ minutes.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10-15 | c. | 20-25 |
| b. | 5-10 | d. | 15-20 |

ANS: D PTS: 1

 205. For commercial market turkeys, pre-starter diets may contain as much as \_\_\_\_\_\_ percent protein.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 25.0 | c. | 29.0 |
| b. | 20.0 | d. | 16.0 |

ANS: C PTS: 1

 206. With a lagoon for poultry manure waste treatment, up to \_\_\_\_\_\_\_\_\_ % of the nitrogen is lost from the waste through volatilization and to settling, and approximately \_\_\_\_\_\_\_\_ % of the phosphorus from the waste settles within the sludge at the bottom of the lagoon.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10, 30 | c. | 30, 10 |
| b. | 20, 40 | d. | 70, 90 |

ANS: D PTS: 1

 207. Air in the setter/incubator\_\_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | supplies oxygen to eggs | c. | removes carbon dioxide |
| b. | supplies moisture to eggs | d. | all are correct |

ANS: D PTS: 1

 208. Tier nests are \_\_\_\_\_ inches above the floor.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12-18 | c. | 24-27 |
| b. | 8-10 | d. | 24 |

ANS: C PTS: 1

 209. Death results when dehydration reaches \_\_\_\_\_\_\_\_\_ % of body fluid.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 20 | c. | 40 |
| b. | 10 | d. | 30 |

ANS: A PTS: 1

 210. Egg shells become more brittle near hatching because \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | they are old | c. | both of the above |
| b. | chicks use calcium |

ANS: B PTS: 1

 211. Feeders should be at the same height so that the trough or pan is level with the bird's \_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | eye | c. | head |
| b. | breast | d. | tail |

ANS: B PTS: 1

 212. Most leghorn hens will produce for a \_\_\_\_\_\_ month period.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12-14 | c. | 14-18 |
| b. | 8-12 | d. | 6-12 |

ANS: A PTS: 1

 213. How old is a male bird when castrated?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1 week | c. | 1-2 days |
| b. | 5-9 days | d. | 3-4 days |

ANS: D PTS: 1

 214. Cage paper should be removed when birds are \_\_\_\_\_\_\_ days of age.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 8 | c. | 10 |
| b. | 7 | d. | 9 |

ANS: D PTS: 1

 215. A method of killing poultry by slitting the neck vein with a sharp blade, allowing blood to drain is \_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | evisceration | c. | exsanguination |
| b. | euthanasia | d. | emanciation |

ANS: C PTS: 1

 216. A common feed blend for egg laying hens would be which of the following mixtures?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 67% corn, 22% soybean meal, 8% limestone, and 3% other ingredients | c. | 50% soybean meal, 22% corn, 25% limestone, and 3% other ingredients |
| b. | 50% corn, 22% soybean meal, 25% limestone, and 3% other ingredients | d. | None of the blends listed above are fed commonly to egg laying hens. |

ANS: A PTS: 1

 217. \_\_\_\_\_\_\_\_ is a surgical process of trimming the comb, wattle and earlobes.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | debeaking | c. | scrubbing |
| b. | dubbing | d. | diphtheric |

ANS: B PTS: 1

 218. A sick chicken is exhibiting several major gross symptoms: Lesions on skin in mouth accompanied by a drop in egg production. Which of the following diseases cause poultry to display the symptoms described?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Cholera | c. | Newcastle |
| b. | Fowl Pox | d. | Marek’s |

ANS: B PTS: 1

 219. A commercial egg producer strives to produce a dozen table eggs and \_\_\_\_\_\_\_\_ pounds of feed.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2-2.5 | c. | 4-4.5 |
| b. | 3-3.5 | d. | 5-5.5 |

ANS: B PTS: 1

 220. A castrated chicken is called a \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | jake | c. | cockrell |
| b. | steer chicken | d. | capon |

ANS: D PTS: 1

 221. In fowl, which senses are well developed?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | taste, smell | b. | sight, hearing |

ANS: B PTS: 1

 222. In the evaluation of egg-type hens, loss of pigmentation (i.e., “bleaching”)

|  |  |  |  |
| --- | --- | --- | --- |
| a. | is not influenced by the size of the hen. | c. | is a good, or reasonably good indicator of the number of eggs laid by a hen. |
| b. | is an evaluative factor that may not be superseded by other selection factors. | d. | is not influenced by pigment in feed. |

ANS: C PTS: 1

 223. The function of the ingulvies is to

|  |  |  |  |
| --- | --- | --- | --- |
| a. | connect the proventriculis to the duodenum. | c. | connect the ventriculis and the proventiculis. |
| b. | grind larger particles of food. | d. | store and soften food. |

ANS: D PTS: 1

 224. Within the nomenclature of standard breed poultry, the term “variety” designates characteristics related to which of the following?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | company | c. | shape |
| b. | breeder or geographic region of origin | d. | color or comb type |

ANS: D PTS: 1

 225. The main use of poultry waste such as used litter is for

|  |  |  |  |
| --- | --- | --- | --- |
| a. | fertilizer (soil amendment). | c. | lawn care treatment. |
| b. | a feedstuff in ruminant nutrition. | d. | a source of non-organic nitrogen for use in aquaculture (fish farming). |

ANS: A PTS: 1

 226. As a rule of thumb, 7000 grains of water vapor equals 1 pound of water, and 1 pound of air at a normal building temperature occupies nearly \_\_\_\_\_\_\_\_ cubic feet of space.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5 | c. | 135 |
| b. | 13.5 | d. | 1,728 |

ANS: B PTS: 1

 227. Swelling of joints, slipped tendons, and shortening of long bones are symptoms of\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | vitamin D deficiency | c. | anemia |
| b. | rickets | d. | perosis |

ANS: D PTS: 1

 228. During hot weather, birds will consume \_\_\_\_\_\_\_\_\_\_\_ times as much water as they do during cool weather.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | two to three | c. | three to four |
| b. | ten | d. | twice |

ANS: A PTS: 1

 229. Birds do not have an evaporative cooling mechanism and must rely almost completely on \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for excess heat disposal.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | evaporation; ventilation | c. | convection; perspiration |
| b. | radiation; conduction | d. | convection; radiation |

ANS: D PTS: 1

 230. Molting in the chicken is

|  |  |  |  |
| --- | --- | --- | --- |
| a. | shedding of feathers | c. | fungal growth on front of the neck and around the beak or bill. |
| b. | coloring characterized as blotching or uneven in surface color. | d. | really a mottled feather covering due to poor care and feeding. |

ANS: A PTS: 1