**Poultry Test Bank 2**

**MULTIPLE CHOICE**

 1. \_\_\_\_\_\_ is the removal of the birds comb, wattles, and earlobes.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | dubbing | c. | caponizing |
| b. | desnooding | d. | decombing |

ANS: A PTS: 1

 2. Some enzymatic reactions in carbohydrate metabolism and protein synthesis require the mineral\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to occur properly.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | phosphorus (P) | c. | manganese (Mn) |
| b. | potassium (K) | d. | selenium (Se) |

ANS: B PTS: 1

 3. When analyzed, poultry manures are often found to contain from 1% to 2.5% nitrogen. Which of the following factors is the reason these values should not be used to determine fertilizer application rates?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Nitrogen volatilizes and may be lost during storage. | c. | Nitrogen at this level is toxic to most plants when applied at recommended rates. |
| b. | The plant root cannot absorb nitrogen derived from poultry manure. | d. | None of the answers are correct. |

ANS: A PTS: 1

 4. Commonly consumed turkeys are \_\_\_\_\_\_ sex.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | male | c. | either sex |
| b. | female | d. | binary |

ANS: C PTS: 1

 5. Bantams are usually about \_\_\_\_\_\_\_\_\_ the size of their large fowl counterpart.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1/3 | c. | 1/10 |
| b. | 1/2 | d. | 1/5 |

ANS: D PTS: 1

 6. If the air exchange in a building removes too much water, the building becomes .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | damp | c. | dry, dusty |
| b. | wet, humid | d. | sticky |

ANS: C PTS: 1

 7. Soundness is a term applied to \_\_\_\_\_\_\_ strength.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | shell | c. | beak |
| b. | bone | d. | feather |

ANS: A PTS: 1

 8. To prepare for a career as a flock or processing plant supervisor in an integrated poultry company requires what level of education typically?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | primary | c. | technical training |
| b. | secondary | d. | college degree |

ANS: D PTS: 1

 9. Hover stoves should be maintained at \_\_\_\_\_\_\_\_\_\_ degrees.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 85-90 | c. | 95-100 |
| b. | 90-95 | d. | 100-105 |

ANS: A PTS: 1

 10. How much of the upper beak should be removed?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1/4 | c. | none |
| b. | 1/2 | d. | 18 |

ANS: B PTS: 1

 11. Producers can minimize the potential for leg disorders in a flock by \_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| a. | sanitation | c. | minimizing stress |
| b. | using quality rations | d. | all of the above |

ANS: D PTS: 1

 12. Almost \_\_\_\_\_\_\_\_% of turkey production is contracted.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 85 | c. | 90 |
| b. | 95 | d. | 80 |

ANS: B PTS: 1

 13. When an egg is laid, which condition is true?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | If the egg is fertile, the blastoderm has formed. | c. | By the time an egg is laid, the number of cells present ranges from 150-600. |
| b. | For the infertile egg, the blastoderm has formed. | d. | In an egg stored above 85oF, cell division ceases. |

ANS: A PTS: 1

 14. Which gland would control the molting of feathers?

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

ANS: D PTS: 1

 15. The epidermis in the feathered parts of a fowl’s body is characterized as

|  |  |  |  |
| --- | --- | --- | --- |
| a. | keratinized horny materials. | c. | modified scales. |
| b. | thin and scaly. | d. | fascia tissue. |

ANS: B PTS: 1

 16. Waterers should be washed and disinfected \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | daily | c. | hourly |
| b. | weekly | d. | any of the above |

ANS: A PTS: 1

 17. Which of the following factors improves after induced molting of an older laying flock?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | egg production or rate of lay. | c. | albumen quality, measured as height. |
| b. | shell quality | d. | All of the factors improve. |

ANS: D PTS: 1

 18. Individuals who enter a career in poultry \_\_\_\_\_\_\_\_\_\_\_ are likely to assist in and direct further development of poultry breeding programs.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | genetics | c. | production |
| b. | nutrition | d. | pharmaceuticals |

ANS: A PTS: 1

 19. Floor brooding accounts for \_\_\_\_\_\_\_\_ % of all pullets gain in US>

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

ANS: C PTS: 1

 20. The chicken’s oviduct is \_\_\_\_\_\_\_\_ inches in length.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 15 | c. | 30 |
| b. | 45 | d. | 5 |

ANS: C PTS: 1

 21. Birds fed \_\_\_\_\_\_\_\_ will have a larger more developed gizzard.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | grasses | c. | whole grain |
| b. | mash | d. | ground feed |

ANS: C PTS: 1

 22. Feathers originate in distinct tracts called \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | feather follicle | c. | follicle |
| b. | wingbar | d. | pterylae |

ANS: D PTS: 1

 23. The mating process of turkeys is known as \_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | kneading | c. | treading |
| b. | sheathing | d. | none of the above |

ANS: C PTS: 1

 24. Regular intake of adequate amounts of water soluble vitamins is important for growth, maintenance, and reproduction; however, large amounts of fat-soluble vitamins can be deadly to an animal. All of the following are water soluble vitamins except

|  |  |  |  |
| --- | --- | --- | --- |
| a. | thiamine | c. | nicotinic acid |
| b. | pyridoxine | d. | dextrose |

ANS: D PTS: 1

 25. Which term means the study of moist air and changes in its conditions?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | barometry | c. | psychrometry |
| b. | pneumometry | d. | thermometry |

ANS: C PTS: 1

 26. The oviduct of an in-lay laying hen would measure about \_\_\_\_\_\_\_\_ in length?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 51 cm (20 in) | c. | 102 cm (40 in) |
| b. | 78 cm (30 in) | d. | 127 cm (50 in) |

ANS: B PTS: 1

 27. Waste collection in poultry operations include which of the following methods?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | collection pits located beneath caged layers. | c. | earthen floors of broiler houses |
| b. | concrete or earthen floors of high-rise layer houses | d. | All of the above answers are waste collection methods. |

ANS: D PTS: 1

 28. Calcium requirement for layers for the first 20 weeks of egg production should be \_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3,600 mg/day | c. | 4,000 mg/day |
| b. | 3,400 mg./day | d. | 3,800 mg/day |

ANS: A PTS: 1

 29. Which disease results in respiratory stress, twisted necks, and poor shell quality?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | fowl pox | c. | newcastle |
| b. | bronchitis | d. | pullorum |

ANS: C PTS: 1

 30. Ideally, egg-strain pullets are moved from pullet facilities to the laying house at what age?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 16 to 18 wks. | c. | 6 months |
| b. | 20 to 24 wks. | d. | When the average egg weight for the flock reaches large. |

ANS: A PTS: 1

 31. Optimum laying temperature for birds is \_\_\_\_\_\_\_\_\_ degrees.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 65-75 | c. | 85-95 |
| b. | 75-85 | d. | 95-105 |

ANS: A PTS: 1

 32. Which of the following statements is true regarding evaporative cooling?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Evaporative cooling systems are more effective with lower humidity than with higher humidity. | c. | Evaporative cooling system efficiencies are not affected by humidity. |
| b. | Evaporative cooling systems are less effective with lower humidity than with higher humidity. | d. | Evaporative cooling systems can lower the temperature of a broiler house by a maximum of 35°F. |

ANS: A PTS: 1

 33. Poultry operations strive to reach feed efficiency goals of \_\_\_\_\_and \_\_\_\_\_ pounds of feed per pound of body weight for broiler and turkey operations, respectively.

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

ANS: A PTS: 1

 34. During incubation of the chicken egg, all parts of the developing chick are present by which day of incubation?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | day 7 | c. | day 14 |
| b. | day 10 | d. | day 18 |

ANS: B PTS: 1

 35. Commercial broilers will yield \_\_\_\_\_\_\_ % of their live body weight as breast meat.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 23-25 | c. | 32-35 |
| b. | 16-18 | d. | 42-48 |

ANS: A PTS: 1

 36. Which species of fowl have red and blue caruncle?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | geese | c. | turkeys |
| b. | chicken | d. | pheasants |

ANS: C PTS: 1

 37. How many pounds of feed per dozen eggs produced would be required in a typical egg laying operation?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3 to 3.5 pounds of feed | c. | 4 to 4.5 pounds of feed |
| b. | 3.5 to 4 pounds of feed | d. | 4.5 to 5 pounds of feed |

ANS: A PTS: 1

 38. Most commercial egg laying operations produce\_\_\_\_\_\_\_\_\_\_ shell eggs.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | neither | c. | brown |
| b. | white | d. | speckled |

ANS: B PTS: 1

 39. Which of the following is the purpose of the air ventilation system?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | temperature control | c. | control moisture level |
| b. | fume removal | d. | all are correct. |

ANS: D PTS: 1

 40. Which of the following factors could be a probable cause for chicks hatching earlier than expected?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | high relative humidity during incubation | c. | small eggs |
| b. | low temperature during incubation | d. | low egg storage temperature |

ANS: C PTS: 1

 41. In mammals, the pectoral muscles account for less than 1% of the total body weight. However, the pectoral muscles in avians account for \_\_\_\_\_\_\_ to \_\_\_\_\_\_\_ of the total body weight.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5% to 15% | c. | 25% to 35% |
| b. | 15% to 25% | d. | 10% to 15% |

ANS: B PTS: 1

 42. Demand for turkey product is \_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | increasing | c. | decreasing |
| b. | stable | d. | has been banned. |

ANS: A PTS: 1

 43. The recommended floor space for brooding egg laying pullets reared on the floor is

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1 square foot per bird. | c. | 3 square feet per bird. |
| b. | 0.75 square feet per bird. | d. | 5 square feet per bird. |

ANS: A PTS: 1

 44. The ovum of an egg is commonly known as the \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | yolk | c. | shell |
| b. | white | d. | none of the above |

ANS: A PTS: 1

 45. Wet litter creates .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | caking | c. | splinter |
| b. | dust | d. | none of the above |

ANS: A PTS: 1

 46. Which type of manure will yield the most biogas that can be used as a power source?

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

ANS: A PTS: 1

 47. The internal color of a chicken patty should be \_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | red | c. | white |
| b. | pink | d. | brown |

ANS: C PTS: 1

 48. Many broiler producers use \_\_\_\_\_\_\_\_\_\_ hours of continuous light in a broiler building.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12 | c. | 23 |
| b. | 24 | d. | 8 |

ANS: C PTS: 1

 49. Ammonia levels above \_\_\_\_\_\_\_ ppm is detrimental to flock health.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 250 | c. | 750 |
| b. | 1 million | d. | 25 |

ANS: D PTS: 1

 50. During hot temperatures, birds need water \_\_\_\_\_\_\_\_\_ minutes of every hour.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 30 | c. | 45 |
| b. | 10 | d. | 20 |

ANS: D PTS: 1

 51. Which part of the digestive system contains an aerobic bacteria which aid in the breakdown of cell wall materials?

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

ANS: D PTS: 1

 52. What is the major mode of pullorum transmission?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | egg transmission | c. | insects |
| b. | bird to bird | d. | contaminated feed |

ANS: A PTS: 1

 53. The skeleton of birds is built for flight because bones are penetrated by air sacs, and long bones are \_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | thin | c. | light |
| b. | weak | d. | hollow |

ANS: D PTS: 1

 54. A successful pullet producer will have a livability rate of \_\_\_\_\_\_\_\_%.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 85-94 | c. | 60-65 |
| b. | 94-98 | d. | 75-85 |

ANS: B PTS: 1

 55. The Animal Welfare Code of Practice, as recommended by the Farm Animal Welfare Council, stipulates that the maximum stocking density in pounds of broiler birds per square foot in broiler houses should be

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3 lb. | c. | 11 lb. |
| b. | 7 lb. | d. | 14 lb. |

ANS: B PTS: 1

 56. The method of poultry genetic selection involving the crossing of related individuals which focuses on improving uniformity among birds but may reduce performance is called \_\_\_\_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | single line | c. | inbred crosses |
| b. | strain cross | d. | two-line cross |

ANS: C PTS: 1

 57. For a broiler operation using a wooden walled storage building for dry stack manure storage, the operator strives to manage the material stored in the building to keep it dry and limit the depth to a maximum of 5 feet for what reason?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | odor issues and related control | c. | fire prevention |
| b. | to avoid breaking down of the storage walls | d. | ensure ease of access to the facility |

ANS: C PTS: 1

 58. The uropygial gland is located where on the chicken?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | on the inside of the hock | c. | near the vent |
| b. | beneath the eye | d. | At the rear of the back and immediately before the main tail feathers. |

ANS: D PTS: 1

 59. A short wing feather that separates the primaries from the secondaries is \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | atrophy | c. | aplastic |
| b. | axial | d. | avirulent |

ANS: B PTS: 1

 60. The glandular stomach is known as the \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | proventruculus | c. | gizzard |
| b. | ingulvies | d. | ventriculus |

ANS: A PTS: 1

 61. What would be the yield of white meat from a 6 lb broiler if the pectoral muscles are 20% of the body?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3.6 lbs. | c. | 5.25 lbs. |
| b. | 1.2 lbs. | d. | 6.4 lbs. |

ANS: B PTS: 1

 62. Which of the following statements is true in regard to growing commercial varieties of egg-type pullets?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Uneven body weights early in the rearing period is easily corrected by management. | c. | The flock should be managed to avoid excessive body weight gain during the 2-to-4-week age of rearing. |
| b. | Common causes of lack of uniformity in pullet body weights are crowding, disease, poor beak trimming, and inadequate nutrient intake. | d. | All are correct. |

ANS: B PTS: 1

 63. How often are commercial female turkey breeder hens artificially inseminated?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | weekly | c. | twice per week |
| b. | biweekly | d. | the hens are not artificially inseminated, rather natural mating is used. |

ANS: A PTS: 1

 64. Which of the following is an appropriate performance goal for white egg-strain pullets or hens?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 88% livability to 16 weeks | c. | 425 hen-day eggs (to 60 weeks) |
| b. | 45-week egg laying period (first egg to end of lay) | d. | approximately 1.90 pounds of feed consumed per pound of eggs produced. |

ANS: C PTS: 1

 65. Handling qualities refer to the general condition of the \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | beak | c. | abdomen |
| b. | plumage | d. | shank |

ANS: C PTS: 1

 66. Which of the following statements about the use of rice hulls during brooding of turkey poults is correct?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Poults are likely to eat the rice hulls. | c. | Rice hull dust predisposes poults to eye irritation. |
| b. | Rice hull dust predisposes poults to aspergillosis. | d. | all are correct |

ANS: D PTS: 1

 67. \_\_\_\_\_\_\_\_ % of turkey production is contracted.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 75 | c. | 95 |
| b. | 50 | d. | 100 |

ANS: C PTS: 1

 68. At the recommended stocking rate, approximately how many turkeys would be moved from a brooding house and placed into a 50 feet wide x 500 feet long growing house?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | approximately 8,300 hens or 5,000 toms | c. | approximately 13,300 poults if sexes are mixed. |
| b. | approximately 16,600 hens or 10,000 toms | d. | 1 poult for each square foot of growing space |

ANS: A PTS: 1

 69. Which of the following is the general hover set temperature of a starting house for turkey poults?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 90°F to 95°F at floor level under the brooder and a room temperature of 75°F when the poults arrive. | c. | 80°F to 85°F at floor level under the brooder and a room temperature of 85°F when the poults arrive. |
| b. | 90°F to 95°F at floor level under the brooder and a room temperature of 85°F when the poults arrive. | d. | 90°F to 95°F at floor level under the brooder and a room temperature of 65°F when the poults arrive. |

ANS: A PTS: 1

 70. In the winter, air must be \_\_\_\_\_\_ to increase its moisture holding ability.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | blown | c. | heated |
| b. | dried | d. | cooled |

ANS: C PTS: 1

 71. In theory, the \_\_\_\_\_\_\_\_\_\_\_ indicates to what \_\_\_\_\_\_\_\_\_\_\_\_ evaporative cooling can cool air.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | wet bulb temperature; relative humidity | c. | dry bulb temperature; relative humidity |
| b. | relative humidity; wet bulb temperature | d. | wet bulb temperature; dry bulb temperature |

ANS: D PTS: 1

 72. Expectoration of blood-stained mucus on a bird’s wings and breast feathers, resulting from the bird trying to clear its windpipe, may indicate presence of the disease \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | infectious laryngotracheitis | c. | infectious coryza |
| b. | infectious bronchitis | d. | infectious bursal disease |

ANS: C PTS: 1

 73. An addled egg contains a \_\_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | meat spot | c. | broken yolk |
| b. | blood spot | d. | no yolk |

ANS: C PTS: 1

 74. A prominent localized shell stain would cover \_\_\_\_\_\_\_\_\_ of the egg's surface.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1/8 | c. | 1/32 |
| b. | 1/4 | d. | 1/16 |

ANS: D PTS: 1

 75. Tom turkeys are marketed at \_\_\_\_\_\_\_\_\_\_ weeks.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 16 | c. | 10 |
| b. | 21 | d. | 8 |

ANS: B PTS: 1

 76. Most economically important breeds of fowl in the US are \_\_\_\_\_\_\_\_ feathered.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | red | c. | white |
| b. | black barred | d. | brown |

ANS: C PTS: 1

 77. Toulouse, Emden, and African are breeds of

|  |  |  |  |
| --- | --- | --- | --- |
| a. | heavy-weight class geese. | c. | light-weight class geese. |
| b. | medium-weight class geese. | d. | heavy-weight class ducks. |

ANS: A PTS: 1

 78. Laying broiler/breeders need at least \_\_\_\_\_\_\_\_\_ square feet of floor space.1.5

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1.5 | c. | 2.4 |
| b. | 2.0 | d. | 2.8 |

ANS: C PTS: 1

 79. Feathers originate from tracts called \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | gonadal appendages | c. | feather tracts |
| b. | pterylae | d. | opterylae |

ANS: B PTS: 1

 80. In general, a contract turkey grower should expect the largest percentage of his or her production cost to be \_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| a. | labor | c. | taxes and insurance. |
| b. | debt service | d. | energy. |

ANS: B PTS: 1

 81. A bird loses heat mainly by \_\_\_\_\_\_\_\_\_\_\_\_\_ to cooler air and by \_\_\_\_\_\_\_\_\_\_\_\_\_\_to cooler surrounding surfaces.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | radiation; convection | c. | radiation; effusion |
| b. | convection; radiation | d. | diffusion; absorption |

ANS: B PTS: 1

 82. Most female turkeys go to the processing plant at \_\_\_\_\_\_\_\_\_\_ weeks.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12-14 | c. | 16-18 |
| b. | 10-12 | d. | 14-16 |

ANS: D PTS: 1

 83. An 8' hover will house \_\_\_\_\_\_\_\_\_\_\_ birds.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 500 | c. | 650 |
| b. | 550 | d. | 750 |

ANS: D PTS: 1

 84. Poultry meat and eggs may harbor Salmonella occasionally. As a result, you should cook poultry meat and eggs to what temperatures?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Poultry meat to an internal temperature of 170°F and eggs to 160°F, or until yolk and white are firm | c. | Poultry meat to an internal temperature of 170°F and eggs to 180°F, or until yolk and white are firm |
| b. | Poultry meat to an internal temperature of 190°F and eggs to 160°F, or until yolk and white are firm | d. | Poultry meat to an internal temperature of 185°F and eggs to 170°F, or until yolk and white are warm |

ANS: A PTS: 1

 85. When using nipple waterers, use \_\_\_\_\_\_\_\_\_\_ nipples per 100 chicks.

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

ANS: A PTS: 1

 86. Chick size is \_\_\_\_\_\_\_\_\_\_\_ % of the egg size.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 100 | c. | 90-95 |
| b. | 85-89 | d. | 66-68 |

ANS: D PTS: 1

 87. Which of the following is a reasonable number of broiler breeder hens for each nest hole (12 in width x 12 in height x 12 in deep), when using a conventional two-tier nest system?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 8 hens per nest hole | c. | 4 hens per nest hole |
| b. | 2 hens per nest hole | d. | 12 hens per nest hole |

ANS: C PTS: 1

 88. A bird's pectoral muscle accounts for \_\_\_\_\_\_\_ % of its total muscle mass, while in humans, its less than 1%.

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

ANS: C PTS: 1

 89. Today, most poultry meat consumed in the United States is produced by chickens and turkeys selected specifically for rapid growth as well as

|  |  |  |  |
| --- | --- | --- | --- |
| a. | plumage color and tail angle. | c. | shank and earlobe color. |
| b. | optimum feed conversion. | d. | the bird’s ability to utilize low quality nutrient sources. |

ANS: B PTS: 1

 90. \_\_\_\_\_\_\_ is the white portion of the egg.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | yolk | c. | chalazae |
| b. | albumen | d. | air cell |

ANS: B PTS: 1

 91. What is the white portion of the egg.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | yolk | c. | chalazae |
| b. | albumen | d. | air cell |

ANS: B PTS: 1

 92. Poultry carcasses are chilled to an internal body temperature of \_\_\_\_\_\_ degrees.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 40 | c. | 32 |
| b. | 10 | d. | 60 |

ANS: A PTS: 1

 93. Which federal agency has primary responsibility through the Poultry Product Inspection Act to regulate poultry processing?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | U.S. Department of Homeland Security | c. | U.S. Department of Defense |
| b. | U.S. Department of State | d. | U.S. Department of Agriculture |

ANS: D PTS: 1

 94. Which colors enhance bird growth?

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

ANS: B PTS: 1

 95. A hatchery will hatch \_\_\_\_\_\_\_ a week from each hatcher.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | twice | c. | three times |
| b. | daily | d. | once |

ANS: A PTS: 1

 96. When evaluating a broiler, the width from wing to wing should be \_\_\_\_\_\_ % of the length of the back.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 50 | c. | 100 |
| b. | 75 | d. | 125 |

ANS: B PTS: 1

 97. Insects are common carriers of which two major poultry diseases?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | mareks, spergillosts | c. | newcastle, mycoplasmosis |
| b. | fowl pox, leukosis | d. | cholera, pullorum |

ANS: B PTS: 1

 98. In a newly fertilized egg, the small white structure on the yolk’s surface is the

|  |  |  |  |
| --- | --- | --- | --- |
| a. | blastodisc. | c. | chalazae. |
| b. | blastoderm. | d. | albumen. |

ANS: B PTS: 1

 99. Pigmentation is a term used to describe the presence or absence of the yellow pigment in \_\_\_\_\_\_\_\_ the skin, shanks, and feet of the egg-type hen.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | chlorophyll a | c. | xanthophyll |
| b. | carotene | d. | chlorophyll b |

ANS: C PTS: 1

 100. Stunning is a method of making the bird unconscious by:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | sticking its head in electrically charged salt water | c. | stunning it with a stun gun |
| b. | placing the birds head on an electrically charged plate | d. | striking the birds head on a steel plate |

ANS: A PTS: 1

 101. Water vapor content is expressed in \_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | grains | c. | grams |
| b. | milliliters | d. | pounds |

ANS: B PTS: 1

 102. The axial feather is located on the \_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | wing | c. | breast |
| b. | tail | d. | neck |

ANS: A PTS: 1

 103. Which of the following lay white shelled eggs?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | leghorn | c. | anconas |
| b. | minorcas | d. | all are correct |

ANS: D PTS: 1

 104. Which sanitation product/procedure is the most effective for clean surfaces when maintaining sanitary conditions of poultry houses and equipment?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | using chlorine-based compounds | c. | relying on time, freezing and thawing, and sunshine |
| b. | using quaternary ammonium compounds | d. | scrubbing surfaces thoroughly with soap and hot water |

ANS: A PTS: 1

 105. Modern turkeys grow rapidly. A one-day-old tom poult weighs approximately \_\_\_\_\_\_\_ and a 21- week-old tom may exceed \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | lb.; 28 lb. | c. | lb.; 28 lb |
| b. | 0.25 lb.; 40 lb. | d. | 0.5 lb.; 30 lb |

ANS: B PTS: 1

 106. The peak times of chick embryo mortality during incubation occur when?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | day 4 and 18 | c. | day 4 and 28 |
| b. | day 7 and 21 | d. | day 18 and 21 |

ANS: A PTS: 1

 107. Which hormone stimulates laying of eggs?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | luteinizing hormone | c. | oxytocine hormone |
| b. | thyrotropin | d. | prolactin |

ANS: C PTS: 1

 108. Warm air in brooding involves the use of space heaters which are usually powered by \_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | gas, oil | c. | coal,coke |
| b. | electricity | d. | other fuels |

ANS: A PTS: 1

 109. The process of maintaining an embryo under conditions favorable for development and hatching is \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | inbreeding | c. | impaction |
| b. | incubation | d. | immune |

ANS: B PTS: 1

 110. In 2000 about \_\_\_\_\_\_\_\_ % of poultry meat produced was exported to other countries.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 15 | c. | 5 |
| b. | 16 | d. | 10 |

ANS: B PTS: 1

 111. Growing new feathers is a severe \_\_\_\_\_\_\_\_ strain on the bird.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | physiological | c. | mental |
| b. | psychological | d. | emotional |

ANS: A PTS: 1

 112. Labeling terms are regulated by FSIS-USDA and relate to the temperature chicken meat can reach during shipping. For product to be labeled deeply chilled, the meat must have

|  |  |  |  |
| --- | --- | --- | --- |
| a. | never been held below 32°F | c. | been held beween 0°F and 26°F |
| b. | never been held below 26°F | d. | been held below 0°F for more that 24 hours |

ANS: C PTS: 1

 113. Broilers are marketed at a weight of \_\_\_\_\_\_\_\_ pounds.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1.5-2.5 | c. | 3.5-4.5 |
| b. | 2.5-3.5 | d. | 4.5-6.5 |

ANS: C PTS: 1

 114. Bird producers usually provide land, buildings, \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | equipment | c. | labor |
| b. | utilities | d. | all are correct |

ANS: D PTS: 1

 115. During formation of the egg in the oviduct, the developing egg spends the most time in which section?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | isthmus | c. | infundibulum |
| b. | uterus | d. | magnum |

ANS: B PTS: 1

 116. WB or wet bulb temperature can be measured using a \_\_\_\_\_\_\_or a \_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| a. | thermometer; barometer | c. | modified air cell gauge; Haugh unit meter |
| b. | coolin pad; intake fan | d. | sling psychrometer; hygrometer |

ANS: D PTS: 1

 117. When chickens that produce brown-shelled eggs and chickens that produce white-shelled eggs are kept under the same conditions and fed the same feed, the brown shell eggs will

|  |  |  |  |
| --- | --- | --- | --- |
| a. | be less nutritious. | c. | keep their quality much longer, be easier to candle and hatch more chicks in addition to being more nutritious and healthy. |
| b. | be more nutritious. | d. | be the same nutritionally as the white-shelled eggs |

ANS: D PTS: 1

 118. Pigmentation fades from the \_\_\_\_\_\_\_\_ after the average number of eggs laid (cumulatively) reaches 180.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | vent | c. | ear lobe |
| b. | hock and top of toe | d. | rear of shanks |

ANS: B PTS: 1

 119. How many breeder males are needed per 100 females?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5 | c. | 10-11 |
| b. | 10-15 | d. | 8-10 |

ANS: C PTS: 1

 120. Large Fowl, American class, breeds of chickens have the following characteristics:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | yellow skin, red ear lobes, and brown shell eggs. | c. | white ear lobes, white shell eggs, and unfeathered shanks. |
| b. | white skin (with exceptions), red ear lobes, and brown shell eggs. | d. | feathered shanks, red ear lobes, and brown shell eggs. |

ANS: A PTS: 1

 121. Key ingredients for successful aerobic composting include proper carbon to nitrogen ratio, proper moisture content and adequate oxygen. What is considered proper moisture content of the mixture to be composted?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 10% to 20% | c. | 30% to 40% |
| b. | 20% to 30% | d. | 40% to 50% |

ANS: D PTS: 1

 122. Operators who produce hatching eggs provide stock for broiler and \_\_\_\_\_\_\_\_ operations.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | eggs | c. | turkey |
| b. | gamebird | d. | none are correct |

ANS: C PTS: 1

 123. Less \_\_\_\_\_\_\_\_ activity causes low myoglobin levels thus the reason for white meat in turkeys and chickens.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | muscle | c. | feeding |
| b. | strutting | d. | daylight |

ANS: A PTS: 1

 124. An anti-microbial wash or rinse is applied on the surface of eviscerated carcasses to reduce or inactivate microbial organisms, specifically, Salmonella cells. The incidence of Salmonella must be maintained at a level below\_\_\_\_\_\_\_\_\_\_\_\_\_ to pass FSIS inspection.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5% | c. | 1% |
| b. | 10% | d. | 15% |

ANS: B PTS: 1

 125. Leghorn type production hens reach peak egg production at about what age under proper production conditions?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 18 weeks | c. | between 24 and 30 weeks |
| b. | 20 weeks | d. | year |

ANS: C PTS: 1

 126. A bluish discoloration of skin, particularly in combs and wattles off poultry is a \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cyanosis | c. | encyst |
| b. | cystic discoloration | d. | cyst |

ANS: A PTS: 1

 127. Which statement is the most accurate in regard to leg disorders of commercial poultry?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Infectious agents may be the direct or indirect cause. | c. | used as an early response to birds displaying rickets. |
| b. | In most cases, treatments are ineffective and will not remedy the problem, except when | d. | The largest, fastest growing males in the flock are usually the birds affected with leg problems. |

ANS: D PTS: 1

 128. Pullets begin laying \_\_\_\_\_\_\_ days after light stimulation.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 17-25 | c. | 32-40 |
| b. | 10-15 | d. | 21-28 |

ANS: D PTS: 1

 129. Follide stimulating hormone is produced in the pituitary gland and controls production of ovarian follides, better known as \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | eggs | c. | egg white |
| b. | egg yolk | d. | sperm cells |

ANS: B PTS: 1

 130. In the interest of welfare and good management, the Animal Welfare Code of Practice recommended by the Farm Animal Welfare Council is that at no time should live weight of the broilers being grown per square foot of floor space exceed how many pounds in a controlled environment house?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 5 pounds | c. | 9 pounds |
| b. | 7 pounds | d. | 11 pounds |

ANS: B PTS: 1

 131. Houses for broiler breeders have \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | slated floors | c. | both a and b |
| b. | raised floors | d. | cages |

ANS: C PTS: 1

 132. Mechanical belts should be run frequently to \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | eliminate adverse egg temperature | c. | eliminate adverse egg temperature and minimize the accumulation of eggs on the belt |
| b. | minimize the accumulation of eggs on the belt | d. | none of the above |

ANS: C PTS: 1

 133. For broiler breeders, increased day length beyond \_\_\_\_\_\_\_\_\_ hours of light is of questionable economic benefit.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 14 | c. | 21 |
| b. | 8 | d. | 17 |

ANS: D PTS: 1

 134. Highly shelled \_\_\_\_\_\_\_\_\_ have replaced the individual producer in the reproduction of today' chickens and turkeys.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | geneticists | c. | service technicians |
| b. | managers | d. | none of the above |

ANS: A PTS: 1

 135. Total incubation time of eggs is influenced by

|  |  |  |  |
| --- | --- | --- | --- |
| a. | egg size. | c. | egg size, storage time, and incubation temperature. |
| b. | egg size and storage time | d. | egg size and incubation temperature. |

ANS: C PTS: 1

 136. Broilers are young tender meated birds of \_\_\_\_\_\_\_\_\_\_ sex.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | either | c. | female |
| b. | male | d. | none are correct |

ANS: A PTS: 1

 137. In hot weather, supplemental lighting should be during \_\_\_\_\_\_\_ hours.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | late afternoon | c. | early morning |
| b. | late night | d. | late morning |

ANS: C PTS: 1

 138. Grit is fed at a rate of 1 lb. per \_\_\_\_\_\_\_\_ birds.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 100 | c. | 150 |
| b. | 200 | d. | 75 |

ANS: A PTS: 1

 139. A great deal of water is piped into poultry buildings and most of it is removed by the

|  |  |  |  |
| --- | --- | --- | --- |
| a. | system. | c. | drainage |
| b. | birds respiratory | d. | ventilation |

ANS: C PTS: 1

 140. Which of the following poultry manures contains more calcium?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | broiler | c. | egg layer |
| b. | turkey | d. | The manures produced by these types of poultry contain similar amounts of calcium. |

ANS: C PTS: 1

 141. Zoonotic diseases or infections are those that may be transmitted from \_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | invertebreate; vertebrates | c. | mature, vaccinated adult birds; unvaccinated baby chicks |
| b. | some wild animals; all domesticated animals | d. | vertebrate animals; humans |

ANS: D PTS: 1

 142. In poultry product processing, most chickens (broilers) go to the processing plant at

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 1 to 2 months of age | c. | 18 to 20 weeks of age |
| b. | 35 to 47 days or about 6 weeks of age | d. | 14 to 16 weeks of age |

ANS: B PTS: 1

 143. One of the greatest concerns with free-range poultry can be loses to \_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | disease | c. | predators |
| b. | insect infestation | d. | all are correct |

ANS: C PTS: 1

 144. After \_\_\_\_\_\_\_\_\_ days, eggs are transferred from the setter to the hatcher.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 16 | c. | 20 |
| b. | 12 | d. | 18 |

ANS: D PTS: 1

 145. Which of the following is a recommended practice when receiving broiler chicks?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Preheat building, provide fresh water and feed immediately before the chicks are placed. | c. | Withhold feed and water until the chicks settle. |
| b. | Turn on heat, place fresh water and feed immediately before the chicks are placed. | d. | Withhold feed until the chicks settle and provide chilled water. |

ANS: A PTS: 1

 146. When referring to the soundness of an egg shell, the term check indicates

|  |  |  |  |
| --- | --- | --- | --- |
| a. | a small scratch exists on the shell surface. | c. | the egg should be assigned a quality grade of B. |
| b. | the egg has a fine, hairline (or hair-like) crack. | d. | the egg should be assigned a quality grade of AA. |

ANS: B PTS: 1

 147. Houses for broiler breeders include \_\_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cages | c. | nests |
| b. | no cages | d. | roosts |

ANS: C PTS: 1

 148. Which of the following nutrient deficiencies of the hen may affect embryonic development but not necessarily prevent egg formation from occurring?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | calcium | c. | phosphorus |
| b. | vitamins and trace minerals | d. | calcium and phosphorus |

ANS: B PTS: 1

 149. Which of the following is a type of incubation system?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | multi-stage rack | c. | single-stage buggy |
| b. | multi-stage buggy | d. | all of the above |

ANS: D PTS: 1

 150. Under normal conditions, evaporative cooling in poultry houses will cool to within \_\_\_\_\_\_\_\_\_ degrees of the ideal wet bulb temperature.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 3 | c. | 7 |
| b. | 1 | d. | 5 |

ANS: A PTS: 1

 151. Which of the following is a special feature of the skin?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | wattles | c. | oil gland, feathers |
| b. | earlobe | d. | all are correct |

ANS: D PTS: 1

 152. When evaluating a broiler, which should be wider?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | width between hips | b. | width between shoulders |

ANS: A PTS: 1

 153. Which problem causes a lack of flock uniformity?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | crowding | c. | poor nutrition |
| b. | poor break trimming | d. | all are correct |

ANS: D PTS: 1

 154. One day storage adds \_\_\_\_\_\_\_\_\_ hour to the incubation time.

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

ANS: A PTS: 1

 155. Skin color influences acceptability of poultry meat. \_\_\_\_\_\_\_ skin color is preferred in the US.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | white | c. | yellow |
| b. | brown | d. | black |

ANS: C PTS: 1

 156. Broilers usually get \_\_\_\_\_\_ hour(s) of darkness each day.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 4 | c. | 7 |
| b. | 1 | d. | 8 |

ANS: B PTS: 1

 157. Which of the following statements regarding chick embryonic development is not true?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Nutritional deficiencies in the hen’s diet may affect embryonic development. | c. | Toxic compounds may enter the egg either from the hen’s diet or from the environment surrounding the egg. |
| b. | Analysis of the time or stage of embryonic development may be helpful in diagnosing hatchability problems relating to nutrition. | d. | The diet of the hen does not influence embryonic mortality. |

ANS: D PTS: 1

 158. Broilers go to the market at the age of \_\_\_\_\_\_ weeks.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 9-12 | c. | 1-2 |
| b. | 14-18 | d. | 6-7 |

ANS: D PTS: 1

 159. Sufficient air must be exhausted to control moisture and \_\_\_\_\_\_\_ build up.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | carbon monoxide | c. | gas |
| b. | aranium | d. | ammonia |

ANS: D PTS: 1

 160. In conventional 2 tier nests, one nest hole is needed for \_\_\_\_\_\_\_\_ birds.

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

ANS: B PTS: 1

 161. Litter must be kept dry and \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | loose | c. | disinfected |
| b. | clean | d. | pretty |

ANS: A PTS: 1

 162. Reduce temperature on chicks \_\_\_\_\_\_\_\_\_ degrees per week until it reaches 65-70 degrees.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 8 | c. | 10 |
| b. | 9 | d. | 5 |

ANS: D PTS: 1

 163. The US poultry industry consists of

|  |  |  |  |
| --- | --- | --- | --- |
| a. | market broiler production | c. | processing and marketing operations |
| b. | market turkey production | d. | all are correct |

ANS: D PTS: 1

 164. Brooder guards are 18" high and placed \_\_\_\_\_\_\_\_\_ inches from the hover edge.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 24 | c. | 60 |
| b. | 24-60 | d. | 60-80 |

ANS: B PTS: 1

 165. Laying broiler/breeders on slated floors need \_\_\_\_\_\_\_\_ sq. ft. or floor space.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 2.0 | c. | 3.0 |
| b. | 1.5 | d. | 2.5 |

ANS: A PTS: 1

 166. Beak trimming, if done properly is \_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cruel | c. | effective |
| b. | permanent | d. | efficient |

ANS: B PTS: 1

 167. Which of the following is not true regarding expected expenditures for turkey contract growers?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 85% of all costs are feed | c. | 7.9% of all costs are energy |
| b. | 20.4% of all costs are labor | d. | 46.7% of all costs are debt service |

ANS: A PTS: 1

 168. Hen turkeys are marketed at \_\_\_\_\_\_\_ weeks.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12 | c. | 16 |
| b. | 24 | d. | 10 |

ANS: C PTS: 1

 169. The vent is the external opening into \_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | ovary | c. | oviduct |
| b. | vagina | d. | cloaca |

ANS: D PTS: 1

 170. Light affects layers by stimulating the pituitary gland to release \_\_\_\_\_, which, in turn, cause(s) increased growth of ova.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | thyroxin | c. | progesterone |
| b. | LH and FSH | d. | LH and GSH |

ANS: B PTS: 1

 171. The Genus and species names of the turkey are

|  |  |  |  |
| --- | --- | --- | --- |
| a. | *Numida meleagris*. | c. | *Gallus gallus*. |
| b. | *Gallus domesticus*. | d. | *Meleagris gallapavo*. |

ANS: D PTS: 1

 172. In a poultry building, too much air flow during cold weather results in a wet building, because:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | the cold air flowing through the building does not have time to warm up and pick up much moisture. | c. | increased ammonia production during cold weather causes moisture to be "trapped" in the litter. |
| b. | cold air holds a lot of moisture, which is transferred to the litter when the cold air enters the building. | d. | cold birds consume more water, resulting in wet litter. |

ANS: A PTS: 1

 173. Body confirmation of a broiler breeder refers to a bird's \_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | meat quality | c. | structure |
| b. | meat quantity | d. | none of the above |

ANS: C PTS: 1

 174. Turkey hens are marketed usually at

|  |  |  |  |
| --- | --- | --- | --- |
| a. | to 8 weeks of age. | c. | 20 to 22 weeks age. |
| b. | 16 to 18 weeks of age. | d. | 28 to 32 weeks of age. |

ANS: B PTS: 1

 175. If a female breeder over consumes, she will become heavy, thus interfering with \_\_\_\_\_\_\_\_.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | growth | c. | egg production efficiency |
| b. | maturity | d. | all of the above |

ANS: C PTS: 1

 176. At 24 weeks, males should be \_\_\_\_\_ % heavier than females.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 15 | c. | 30 |
| b. | 10 | d. | 20 |

ANS: C PTS: 1

 177. Which of the following is the true glandular stomach of birds?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | duodenum | c. | iliem |
| b. | porventriculus | d. | muscular stomach |

ANS: B PTS: 1

 178. Where is bile stored?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | liver | c. | gall bladder |
| b. | heart | d. | kidneys |

ANS: C PTS: 1

 179. Rupture of the follicular membrane along the stigma of a developed yolk is a step in which process?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | ovulation | c. | blood spot development |
| b. | oviposition | d. | hatching |

ANS: A PTS: 1

 180. Which poultry disease is caused by a protozoan?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cholera | c. | Marek’s |
| b. | infectious coryza | d. | Blackhead (turkeys) |

ANS: D PTS: 1

 181. It is recommended that litter depth be at lease \_\_\_\_\_\_ inches deep.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 0-1 | c. | 4-6 |
| b. | 2-3 | d. | 7-9 |

ANS: B PTS: 1

 182. Which of the following statements about air sacs is not correct?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | There are many blood vessels found in the membranes composing the walls of air sacs. | c. | Air sacs help regulate body temperature. |
| b. | Air sacs reduce the specific gravity of flying birds. | d. | Air sacs provide a reserve supply of air for flying birds. |

ANS: A PTS: 1

 183. The \_\_\_\_\_\_\_\_ is a spiral band that supports the yolk.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | yolk band | c. | chalaza |
| b. | chorio | d. | comb |

ANS: C PTS: 1

 184. \_\_\_\_\_\_\_ % of all table eggs are produced in large houses equipped with cages.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 60 | c. | 90 |
| b. | 50 | d. | 50 |

ANS: C PTS: 1

 185. Egg setters operate at \_\_\_\_\_\_\_ % humidity.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 25 | c. | 50 |
| b. | 33 | d. | none of the above |

ANS: C PTS: 1

 186. 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: D PTS: 1

 187. 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

 188. 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

 189. 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

 190. Individuals who enter a career in poultry are likely to assist in and direct further development of poultry breeding programs.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | genetics | c. | production |
| b. | nutrition | d. | pharmaceuticals |

ANS: A PTS: 1

 191. \_\_\_\_\_\_\_\_\_\_\_\_\_ 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

 192. Expectoration of blood stained mucus on a bird’s wings and breast feathers, resulting from the bird trying to clear its windpipe, may indicate presence of the disease.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | infectious laryngotracheitis | c. | infectious coryza |
| b. | infectious bronchitis | d. | infectious bursal disease |

ANS: A PTS: 1

 193. The carry of muscling in market broilers is determined by how well the breast meat width carries from the to the end of the keel bone.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | middle of the breast | c. | points of wing attachment |
| b. | front of the tibia | d. | point of sacral attachment |

ANS: C PTS: 1

 194. While candling an egg, an individual observes very small blood spots that do not aggregate to more than 1/8 inch in diameter. This egg would be assigned a USDA Grade of .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | AA | c. | B |
| b. | A | d. | Loss |

ANS: C PTS: 1

 195. While evaluating exterior shell quality, slight/moderate, localized stains covering less than 1/32 of the shell are observed. Which USDA Grade should be assigned to this egg?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | A | c. | B |
| b. | AA | d. | C |

ANS: C PTS: 1

 196. The USDA defines natural proportion of skin in further-processed poultry products as making up to what percentage of the total weight of the product (meat + skin)?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 38% | c. | 18% |
| b. | 28% | d. | 8% |

ANS: C PTS: 1

 197. When identifying the parts of a chicken carcass, you observe that a part has been severed from the breast approximately half way between the end of the hypocledium and from the point of the cranial process of the sternal crest to a point where the part joins the shoulder. This part should be identified as a .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | wishbone | c. | breast quarter without wing |
| b. | breast quarter | d. | split breast |

ANS: A PTS: 1

 198. After 4 to 6 days of incubation, which part of an incubating egg collects water from the albumen to protect and support the developing embryo?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | amnion | c. | chorion |
| b. | allantois | d. | chorioallantoic membrane |

ANS: A PTS: 1

 199. Increased embryo mortality in incubating chicken eggs usually occurs

|  |  |  |  |
| --- | --- | --- | --- |
| a. | around day 4 and an even larger percentage at day 18. | c. | with the largest mortality, early on day 4. |
| b. | with the largest percentage on day 14. | d. | near hatching on day 24. |

ANS: A PTS: 1

 200. Which of the following descriptions about infectious disease agents is false?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | protozoa are microscopic | c. | a parasite host is an organism in which a parasite live |
| b. | protozoa are multicellular organisms | d. | mycoplasma organisms lack a cell wall |

ANS: B PTS: 1

 201. Which of the following statements about disease prevention is not true?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | The 4 major components of biosecurity are isolation, traffic control, sanitation, and recovery. | c. | Isolation refers to confinement of animals within a controlled environment. |
| b. | Biosecurity refers to precautions taken to minimize the risk of infectious disease introduction. | d. | When you arrive at a farm for visit, consider yourself “dirty.” |

ANS: A PTS: 1

 202. Which of the following diseases is highly contagious for young chicks, affects primarily the bursa of Fabricius, and leads to poor vaccination responses?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Gumboro disease | c. | Marek’s disease |
| b. | Fowl cholera | d. | Newcastle disease |

ANS: A PTS: 1

 203. Regarding poultry waste management and the storage of broiler litter, research performed on roofed storage systems shows that this type of system loses what percentage of ammonia nitrogen after two months, assuming no airtight cover is used?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 15% | c. | 10% |
| b. | 30%` | d. | 5% |

ANS: C PTS: 1

 204. Daily manure production by 100 six-week old broilers consuming 26 to 30 pounds feed per day may be expected to produce how much manure each day?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 30 to 35 pounds | c. | 50 to 60 pounds |
| b. | 26 to 30 pounds | d. | 13 to 15 pounds |

ANS: A PTS: 1

 205. High humidity is most often a problem and can affect bird health.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | summer | c. | spring |
| b. | winter | d. | fall |

ANS: B PTS: 1

 206. The term means moving outside air into the poultry house, and exhausting inside air out of the house.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | air transfer | c. | ventilation |
| b. | exsanguination | d. | transitioning |

ANS: C PTS: 1

 207. The modern breeds of chickens we have today were mainly derived from which two types of birds?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Asiatic and Mediterranean | c. | American and English |
| b. | Mediterranean and Continental | d. | South Asian and Mesopotamia |

ANS: A PTS: 1

 208. Vitamins are essential organic (carbon-based) compounds needed in small amounts by a bird and are divided into two categories: fat-soluble and water-soluble. A, D, E, and K are

|  |  |  |  |
| --- | --- | --- | --- |
| a. | water-soluble vitamins | c. | good supplemental vitamins but not necessary for a bird’s growth and health |
| b. | fat-soluble vitamins | d. | non-essential vitamins |

ANS: B PTS: 1

 209. The expected crude protein (CP) percentage of the Fish Meal used in most poultry rations is approximately .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 85% | c. | 60% |
| b. | 45% | d. | 75% |

ANS: C PTS: 1

 210. The wasting away of body tissue or an organ is termed .

|  |  |  |  |
| --- | --- | --- | --- |
| a. | virulence | c. | gangrene |
| b. | muscularity | d. | atrophy |

ANS: D PTS: 1

 211. Hens that have laid large numbers of eggs are usually bleached in all the body parts.

What is the approximate number of weeks should it take for the bottom of the foot to

fade?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 0 to 2 | c. | 4 to 5 |
| b. | 3 to 4 | d. | 8 to 12 |

ANS: D PTS: 1

 212. The U.S. Standards for Quality of Individual Shell Eggs uses different factors as the

basis to determine egg quality. Of the factors listed below, which one does not fit into

the Standards for Quality of Individual Shell eggs?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | cleanness and soundness of shell | c. | size of air cell |
| b. | shell color | d. | white or yolk |

ANS: B PTS: 1

 213. When identifying poultry parts, the part that is the inner pectoral muscle

(pectoralis minor, underlying the pectoralis major) along the breastbone. It is a

boneless, skinless portion of white meat. Tendons may be present. This part

should be identified as:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Boneless/Skinless split breast | c. | Pectoralis Minor |
| b. | Pectoralis Major | d. | Tenderloin |

ANS: D PTS: 1

 214. Some Further Processed Poultry Meat Products are Whole Muscle Boneless or Bone-In

Products: These products go through a five-step process flow starting with

Portioning. What is the final process step these products go through before

packaging?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Glazing | c. | Marination |
| b. | Portioning | d. | Predust/Batter/Bread |

ANS: A PTS: 1

 215. The muscles of poultry have distinct purposes to assist poultry to be mobile

and assist in flight. The muscle that flexes the knee joint and extends the thigh

is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_muscle.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Adominus | c. | Satorius |
| b. | Peroneus | d. | Semitendinosus |

ANS: D PTS: 1

 216. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is a cavity for the entrance of the genital, urinary, and

digestive tracts.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Cecum | c. | Glandular Stomach |
| b. | Cloaca | d. | Follicular Membrane |

ANS: B PTS: 1

 217. When candling a fertile egg, a healthy embryo causes the egg to have a\_\_\_\_\_\_\_\_

appearance.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Dark | c. | Cloudy |
| b. | Clear | d. | Red |

ANS: D PTS: 1

 218. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the ability of an organism to produce disease in poultry.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Bacteria | c. | Infection |
| b. | Disease | d. | Pathogenicity |

ANS: D PTS: 1

 219. \_\_\_\_\_\_\_\_ Disease, is a highly contagious viral disease of young chickens characterized

by high mortality, anorexia, diarrhea, and depression. It is caused by a virus that

has a preference for lymphoid tissue, primarily the bursa of Fabricius.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Cholera | c. | Gumboro |
| b. | Fowl Pox | d. | Infectious Laryngotracheitis |

ANS: C PTS: 1

 220. A moisture content considered p r o p e r for successful aerobic composting w o u l d

be?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 20% to 30% | c. | 40% to 50% |
| b. | 30% to 40% | d. | 50% to 60% |

ANS: C PTS: 1

 221. A \_\_\_\_\_\_\_\_\_\_\_\_\_ is a segment of DNA that carries a blueprint for the function of a cell.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Chromosome | c. | Gene |
| b. | DNA | d. | Genotype |

ANS: C PTS: 1

 222. \_\_\_\_\_\_\_\_\_\_are complex organic macromolecules containing carbon, hydrogen,

oxygen, nitrogen, and usually sulfur.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Carbohydrates | c. | Proteins |
| b. | Lipids | d. | Minerals |

ANS: C PTS: 1

 223. Single stomach, or monogastric, animals require 22 amino acids in their body. Those

animals can manufacture a portion of the 22 non-dietary essential amino acids, but

cannot store the amino acids in their bodies. As a result, they must get a daily dose

of protein containing which of the following?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Adequate dietary methionine levels to cover the shortage. | c. | Dietary nitrogen levels to build these odd amino acids. |
| b. | Dietary protein exclusively from plant feedstuffs. | d. | The other 10 dietary essential amino acids. |

ANS: D PTS: 1

 224. Animals need very small amounts of some types of minerals that are called Trace

Minerals. Which of the following would be listed as a Trace Mineral?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Biotin | c. | Cobalt |
| b. | Choline | d. | Sodium |

ANS: C PTS: 1

 225. Food safety is an important part of the marketing program when the company's

products are branded. In addition, the HACCP system is implemented in all facilities

to prevent the potential of hazards associated with the branded poultry

products. HACCP refers to:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | Hazard Analysis and Crucial Controller Positioning | c. | Hazard Analysis and Critical Control Points |
| b. | Hazard Analysis and Central Control Points | d. | Hazard Analysis and Crucial Control Points |

ANS: C PTS: 1

 226. If broiler litter contains 25% moisture, then one ton will contain:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 800 pounds dry matter | c. | 1,600 pounds dry matter |
| b. | 1,500 pounds dry matter | d. | 1,800 pounds dry matter |

ANS: B PTS: 1

 227. If the soil nutrient value of broiler litter contains 1.2% phosphorus as P2Os, then

a ton will contain:

|  |  |  |  |
| --- | --- | --- | --- |
| a. | 12 pounds of phosphorus | c. | 24 pounds of phosphorus |
| b. | 20 pounds of phosphorus | d. | 48 pounds of phosphorus |

ANS: C PTS: 1

 228. Dry-Stack Storage Systems with a gable-roofed structure is an option for storing

large quantities of manure in a dry environment. What is the total cost of a 40-

foot by 60-foot structure at $3.75 per square foot?

|  |  |  |  |
| --- | --- | --- | --- |
| a. | $4,500 | c. | $9,000 |
| b. | $8,400 | d. | $10,400 |

ANS: C PTS: 1