

Arkansas State FFA Poultry Exam
2016

Write answers on scantron.

1. For a typical egg laying operation, the production goals for a hen housed during a 52-80 week laying period is _____.
 - a) 120 – 140 eggs
 - b) 160 - 180 eggs
 - c) 240 – 350 eggs
 - d) 370 – 390 eggs

2. On a broiler breeder pullet and cockerel farm, birds are raised from hatchlings to approximately _____ weeks of age.
 - a) 8
 - b) 10
 - c) 15
 - d) 20
 - e) 30

3. A broiler should reach _____pounds in a 6-7 week period.
 - a) 3.5 – 4.5
 - b) 4.5 – 5.5
 - c) 5.5 – 6.5
 - d) 6.5 – 7.5

4. White meat is primarily marketed to _____ markets.
 - a) Polynesian
 - b) Domestic
 - c) Asian
 - d) Oriental
 - e) Scandinavian

5. _____ pounds of feed is required to produce one pound of gain in body weight during a turkey grow out period.
 - a) 3.5
 - b) 65
 - c) 2.5
 - d) 12.5

6. Which vocation is not normally related to the poultry industry?
 - a) Nutritionist
 - b) Floriculturist
 - c) Geneticist
 - d) Production supervisor
 - e) Food Processing Manager
7. Poultry have unique anatomical and physiological characteristic. Which of the following is not true? Poultry has _____.
 - a) High body temperature
 - b) High pulse rate
 - c) High respiration rate
 - d) Low rate of food passage
 - e) Lightweight skeleton
 - f) Modification of forelimbs into wings
8. The common name for *Colinus virginianus* is _____.
 - a) Turkey
 - b) Ring-necked pheasant
 - c) Indian or blue pea fowl
 - d) Northern bob white quail
 - e) Mallard duck
9. Which is not a muscle in poultry?
 - a) Sartorius
 - b) Sagitarious
 - c) Semitendinosus
 - d) Latissimus
10. The pectoral muscles of the bird account for _____ percent of the bird's total weight.
 - a) 5 – 10%
 - b) 10 – 15%
 - c) 15 – 20%
 - d) 20 – 25%
 - e) 25 – 30%
11. The following best describes the development of the fowl's senses.
 - a) Sight, hearing, taste and smell are highly developed
 - b) Sight and smell are highly developed
 - c) Sight is highly developed and hearing, taste and smell are poorly developed
 - d) Sight and hearing are highly developed and taste and smell are poorly developed
 - e) Sight, hearing, taste and smell are poorly developed

12. The part of the digestive system where food is stored and moistened is the _____.
a) Gizzard
b) Isthmus
c) Hepatic Duct
d) Crop
e) Colon
13. The oviduct of the chicken is _____ inches long.
a) 10
b) 20
c) 30
d) 40
e) 50
14. In the female reproductive tract, the secretion of albumen occurs in the Magnum. The length of time an egg spends in this section is:
a) 15 minutes
b) 3 hours
c) 21 hours
d) 24 hours
15. The fowl's urinary system has unique characteristics. Which of the following is true?
a) Site of red blood cell formation and respiration
b) Site of hormone production and insulin secretion
c) Site of ovulation and fertilization
d) Site of nitrogen waste excretion and lacks a bladder
16. The hormone that stimulates the female to become broody(maternal tendency of birds to nest and hatch eggs) is _____.
a) Follicle stimulating hormone
b) Luteinizing hormone
c) Oxytocin
d) Prolactin
e) Thyrotropin
17. The blastodisc contains genetic information that is provided by the _____.
a) Hatchery manager
b) Female
c) Male
d) Farmer

18. _____ will attempt fertilization of the egg.
- a) Many sperm
 - b) One sperm
 - c) A few sperm
 - d) Two (2) sperm
19. When the egg is laid, cell division stops when the temperature drops below _____ degrees until the egg is brought to incubation temperature.
- a) 55 degrees
 - b) 65 degrees
 - c) 75 degrees
 - d) 85 degrees
20. During incubation, a membrane that forms under the embryo and collects water from the albumen is the _____.
- a) Plural
 - b) Allantois
 - c) Chorion
 - d) Amnion
21. _____ is a group of very small bacteria that lack a cell wall.
- a) Virus
 - b) Mycoplasma
 - c) Protozoa
 - d) Fungi
22. Dry storage of litter is an excellent method of preserving nutrients in poultry waste. Precaution should be taken with structures constructed with wooden walls because _____.
- a) Wood promotes volatilization of nutrients
 - b) Wood promotes leaching of nutrients
 - c) Wood enhances pathogens in the manure
 - d) Fire can result due to excessive stacking of moist manure
23. A hatchery manager does not have control of _____ as a factor that contributes to percent hatchability.
- a) Egg incubation
 - b) Egg handling
 - c) Egg sanitation
 - d) Egg fertility

24. In a broiler operation, 7 day old body weight is a good indicator of the success of brooding management. The target for 7 day body weights is _____ times the one day old weight.
- a) 2-3
 - b) 3-4
 - c) 4-5
 - d) 5-6
25. During a 25 week laying cycle, a breeder hen turkey lays _____ eggs.
- a) 78 – 83
 - b) 88 – 93
 - c) 98 – 103
 - d) 108-113
 - e) 118-123
26. A flock manager's goal is 1,000,000 live birds delivered to a processing plant in a given period.
- Assume:
- A flock mortality rate of 3.8% (Assume all mortality occurred after hatch)
- A fertility rate of 95%
- A hatchability of 94%
- How many live chicks were placed?
- a) 1,000,000
 - b) 1,000,380
 - c) 1,039,502
 - d) 1,380,002
 - e) 3,800,002
27. How many eggs were fertile?
- a) 1,100,000
 - b) 1,101,853
 - c) 1,102,853
 - d) 1,104,853
 - e) 1,105,853
28. How many eggs were placed for incubation?
- a) 1,100,189
 - b) 1,154,055
 - c) 1,164,055
 - d) 1,165,055

29. Given: To convert elemental P to P_2O_5 , multiply P by 2.29

A poultry litter sample was analyzed and contained 30% moisture and 30 lbs/ton Phosphorus. What is the amount of P_2O_5 in pounds/ton on a dry matter basis?

- a) 88.1
 - b) 98.1
 - c) 108.1
 - d) 118.1
30. If a soil test result recommends 60 pounds of P_2O_5 per acre, what is the litter application rate per acre on an "as is basis"?
- a) 1546 pounds/ac
 - b) 1646 pounds/ac
 - c) 1746 pounds/ac
 - d) 1846 pounds/ac