

NORTH CAROLINA FFA ASSOCIATION
2004 AGRONOMY CAREER DEVELOPMENT EVENT
Written Test

Instructions: Read each question carefully and circle the best answer for each question.

1. Which of the following crops is a legume?
 - A. Cotton
 - B. Tobacco
 - C. Peanut
 - D. Corn

2. If you have a 6-12-18 analysis fertilizer, 6-12-18 stands for the percentage of
 - A. N - K₂O - P₂O₅
 - B. N - P₂O₅- K₂O
 - C. K₂O – N - P₂O₅
 - D. P₂O₅ - K₂O - N

3. Which of the following crops is (are) considered fiber crop(s)?
 - A. Kenaf
 - B. Soybeans
 - C. Cotton
 - D. Both A and C

4. Which nutrient deficiency causes purple stems and leaves?
 - A. Sulfur
 - B. Nitrogen
 - C. Phosphorus
 - D. Potassium

5. In most crop plants, a sulfur deficiency will first show up on which part of the plant?
 - A. Bottom leaves
 - B. Top leaves
 - C. All leaves would show symptoms at the same time
 - D. none of the above

6. Which one of the following crops is a monocot?
 - A. Soybeans
 - B. Tobacco
 - C. Wheat
 - D. Cotton

7. A legume is a plant that converts which element in the air into a form plants can use?
- A. Oxygen
 - B. Hydrogen
 - C. Nitrogen
 - D. Helium
8. Lime is used to adjust what soil property?
- A. Organic Matter
 - B. pH
 - C. Drainage
9. Seedling emergence can be affected by which of the following?
- A. Soil temperature
 - B. Soil type
 - C. Tillage
 - D. Planting Depth
 - E. All of the above
10. In a seed, the source of energy for seedling development is called the _____.
- A. Cotyledon
 - B. Radicle
 - C. Endosperm
 - D. Seed coat
11. Which of the following is not an advantage of no-till production of a crop compared to conventional planting?
- A. Better soil moisture
 - B. Better weed control
 - C. Reduced fuel use
 - D. Warmer soil at planting
12. What is an acceptable pH range for growth of most agronomic crops?
- A. 5.7 to 6.3
 - B. 4.0 to 4.6
 - C. 7.4 to 8.0
13. Dolimitic lime differs from agricultural lime because it contains _____.
- A. N
 - B. K
 - C. Mg
 - D. Zn
 - E. Pb

14. Agronomy is the study of crops and soils for the production of _____.
- A. Food
 - B. Feed
 - C. Fiber
 - D. All of the above
15. North Carolina leads the nation in the production of _____.
- A. Cotton
 - B. Sweet potato
 - C. Peanut
 - D. Wheat
16. Plants that repeat their lifecycles indefinitely are known as _____.
- A. Biennial
 - B. Perennial
 - C. Annual
17. Leaching of nitrate nitrogen is greater with which of the following?
- A. Sandy topsoil
 - B. High rainfall
 - C. High irrigation
 - D. All of the above
18. The longest day of the year in the Northern Hemisphere is _____.
- A. June 21
 - B. April 21
 - C. September 21
 - D. December 21
19. A plant that has separate male and female flowers at different locations on the same plant is called _____.
- A. Dioecious
 - B. Monoecious
 - C. Trioecious
 - D. Bioecious
20. If a soil is 20% sand, 50% silt and 5% organic matter, what percentage is clay?
- A. 25%
 - B. 30%
 - C. 40%
 - D. 10%

21. Macronutrients such as N, P, K, Ca, and Mg are _____ as pH decreases below 6.0.
- A. More available
 - B. Less available
 - C. Available in the same amounts
 - D. None of the above
22. The specialized seed leaf of a seed embryo is called the _____.
- A. Ovule
 - B. Cotyledon
 - C. Radicle
 - D. Peduncle
23. Which of the following crops has a fibrous root system?
- A. Cotton
 - B. Tobacco
 - C. Soybean
 - D. Corn
24. The term used to describe a crop plant that uses pollen from another plant or flower to fertilize an egg is _____.
- A. Cross-pollinated
 - B. Self-pollinated
 - C. Endosperm
 - D. Nucleus
25. When a crop plant flowers over a long period of time and not all flowers develop together the plant is considered to be _____.
- A. Indeterminant
 - B. Determinant
 - C. Denitrification
 - D. Indecisive