

NORTH CAROLINA FFA ASSOCIATION
2003 AGRONOMY CAREER DEVELOPMENT EVENT
WRITTEN TEST

Multiple Choice: Circle the best answer to complete the statements.

1. Which of the following crops is not a legume?
 - A. Cotton
 - B. Clover
 - C. Peanut
 - D. Alfalfa

2. If you have a 6-12-18 analysis fertilizer, which number represents the percentage of Phosphorus (expressed as P_2O_5)?
 - A. 6
 - B. 12
 - C. 18
 - D. 24

3. Which one of the following crops is considered a fiber crop?
 - A. Corn
 - B. Soybeans
 - C. Wheat
 - D. Cotton

4. In most crop plants, a nitrogen 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

5. Of the soil textures listed below, which has the finest texture and smallest particle size?
 - A. Sand
 - B. Silt
 - C. Loam
 - D. Clay

6. You have a threshold for spraying an insecticide of 10% of the plants sampled having at least one budworm. When you count 100 plants at random in a field you find that 25 have at least one budworm. What should you do?
 - A. Spray the insecticide
 - B. Wait until you see more plants with budworms before you spray the insecticide
 - C. Spray more than what the insecticide label calls for because you have a lot of budworms

7. Which one of the following crops is a dicot?
 - A. Soybeans
 - B. Corn
 - C. Wheat
 - D. Barley

8. Palmer amaranth, chick weed, and dandelion are all examples of which category of weeds?
 - A. Grass weeds
 - B. Broadleaf weeds
 - C. Sedges
 - D. None of the above

9. 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

10. Lime is used to adjust what soil property?
 - A. Organic Matter
 - B. pH
 - C. Drainage

11. The use of light energy by a plant to make food is known as _____.
 - A. Respiration
 - B. Photosystem
 - C. Photosynthesis
 - D. Chlorophyll

12. 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

13. The term commonly used to describe a crop plant that has been genetically altered to aid in pest control is a _____. (example: Cotton tolerant to Roundup herbicide)
 - A. ABC
 - B. GMO
 - C. GAT
 - D. TGC

14. In a seed, the source of energy for seedling development is called the _____.
- A. Cotyledon
 - B. Radicle
 - C. Endosperm
 - D. Seed coat
15. 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
16. 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
17. Dolomitic lime differs from agricultural lime because it contains _____.
- A. N
 - B. K
 - C. Mg
 - D. Zn
 - E. Pb
18. Agronomy is the study of crops and soils for the production of _____.
- A. Food
 - B. Feed
 - C. Fiber
 - D. All of the above
19. North Carolina leads the nation in the production of _____.
- A. Flue-cured tobacco
 - B. Cotton
 - C. Peanut
 - D. Wheat
20. Plants that repeat their lifecycles indefinitely are known as _____.
- A. Biennial
 - B. Perennial
 - C. Annual

21. Which of the following is not considered a cereal crop?
- A. Wheat
 - B. Corn
 - C. Rye
 - D. Soybeans
22. A hybrid variety is a product of a cross between two parent crop plants that differ in one or more inherited traits (parents are not identical).
- A. True
 - B. False
23. Decomposed remains of organisms that have been incorporated into the soil are known as _____.
- A. Soil enzymes
 - B. Cation exchange capacity
 - C. Soil organic matter
 - D. Lime
24. The three macronutrients (major nutrients) in plant nutrition are _____.
- A. N, P, and K
 - B. N, Ca, and S
 - C. P, N, and Mg
 - D. Zn, Pb, and Fe
25. Which of the following is not a female flower part?
- A. Stigma
 - B. Ovary
 - C. Style
 - D. Anther