2010 FFA Agromony CDE Lab Practical Questions

VEGETATIVE WEED ID

1. This weed is _____________________

CROP GROWTH AND DEVELOPMENT

2. The sorghum plant shown here is in which of the following growth stages:

A) growing point differentiation (floral initiation)
B) flag leaf emergence
C) boot stage
D) heading
E) flowering (half bloom)
F) physiological maturity

NUTRIENT DEFICIENCY

3. The yellow stripes on the new, upper leaves on this corn plant is typical of a deficiency of:

A) Nitrogen
B) Phosphorus
C) Potassium
D) Iron
E) Sulfur
SOIL SURVEY

4. Which of the following soil series would be the best for building a dwelling with a basement in Marshall County?

A) Eudora  
B) Geary  
C) Morrill  
D) Ortello  
E) Wymore

CROP STRUCTURE – GRASS LEAF

5. The name of the plant structure marked by the red bracket is the:

A) Petiole  
B) Collar  
C) Sheath  
D) Blade  
E) Ligule

PLANT STRUCTURE – DICOT FLOWER

6. The plant structures marked by the red pins on both the live plant and the mounted flower are called:

A) Stigmas  
B) Stamens  
C) Sepals  
D) Styles  
E) Petals  
F) Pistils
CROP DISEASE

7. This disease is
   A) charcoal rot       D) Gibberella stalk rot
   B) rust              E) corn smut
   C) blue eye mold     F) ear rot

FERTILIZER

8. Which is of the above fertilizers would be a source of potassium?
   ANSWER: A, B, C, or D

SEED BAG LABELS

9. The above symbols found on seed bags indicate the presence of herbicide and/or insect resistance traits in the seed. Which would NOT contain traits incorporated by genetic engineering?
   ANSWER: A, B, C, D, E or F

EQUIPMENT

10. This piece of equipment is a (an) __________________

VEGETATIVE WEED ID

11. This weed is ___________
RECTANGULAR SOIL SURVEY

12. The correct legal description of the area labeled “H” in section 10 of T2N R3W and the appropriate number of acres in this area is:

A) SW ¼ of SE ¼ = 80 acres
B) W ½ of SE ¼ = 40 acres
C) S ½ of SE ¼ = 40 acres
D) NW ¼ of SE ¼ = 80 acres
E) SW ¼ of SE ¼ = 40 acres
F) SE ¼ of SW ¼ = 40 acres

CROP GROWTH AND DEVELOPMENT

13. The growth stage of this plant is

A) V-3
B) V-4
C) V-5
D) V-6
E) VT
F) R-1

CROP DISEASE

14. This disease is

A) loose smut of wheat
B) barley yellow dwarf virus
C) wheat scab
D) stem rust of wheat
E) leaf rust of wheat

C) wheat streak mosaic virus
CROP GROWTH AND DEVELOPMENT

15. This corn ear indicates the plant is at which of the following growth stages?

R 1. Silking  
R 2. Blister  
R 3. Milk  
R 4. Dough  
R 5. Dent  
R 6. Black Layer (Physiological Maturity)

USE THE KANSAS CROP PLANTING GUIDE

16. The recommended plant population for dryland alfalfa for the 20-30 inch rainfall zone in central Kansas is _______________ pounds per acre.

CROP STRUCTURE - SEEDLINGS

17. The structure marked by the white pin is called the:

A) Mesocotyl  
B) Cotyledon  
C) Hypocotyl  
D) Coleoptile

HERBICIDE LABEL

18. The signal word on this herbicide label is: _____________________
19. The seed protectant (seed treatment) on this hybrid corn seed contains:

A. one fungicide
B. one insecticide
C. one fungicide and one insecticide
D. two fungicides and one insecticide
E. five fungicides and two insecticides

CROP INSECT

20. This insect is

A) corn earworm  D) fall armyworm
B) green cloverworm  E) black cutworm
C) corn rootworm  F) European corn borer

VEGETATIVE WEED ID

21. This weed is ________________

EQUIPMENT

22. This piece of equipment is a(n)________________________.
23. Which of the grasses displayed here is a cool-season, introduced, perennial forage crop?

ANSWER: A, B, C, or D

24. Which of the weeds displayed here is NOT a prohibited noxious weed as defined by the State of Kansas Noxious Weed Law?

ANSWER: A, B, C, D or E

SOIL TEXTURE

25. The correct soil textural class for a soil with 10% clay, 30% silt, and 60% sand is a ____________________________.

CROP DISEASE

26. This wheat seed disease is:

A) blacktip  D) loose smut
B) ergot      E) purple seed stain
C) scab       F) bacterial blight
27. What crop is the above feed ingredient made from?

A) Corn  
B) Wheat  
C) Alfalfa  
D) Soybean  
E) Cotton

28. This insect is

A) blister beetle  D) chinch bug  
B) bean leaf beetle  E) alfalfa weevil  
C) lady beetle  F) corn rootworm

29. Which of the above materials would be used in soybean production to insure proper nodulation?

ANSWER: A, B, C, or D

30. This insect is:

A) alfalfa weevil  D) chinch bug  
B) lady beetle  E) aphid  
C) blister beetle  F) lacewing