

# 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  $\frac{1}{4}$  of SE  $\frac{1}{4}$  = 80 acres
  - B) W  $\frac{1}{2}$  of SE  $\frac{1}{4}$  = 40 acres
  - C) S  $\frac{1}{2}$  of SE  $\frac{1}{4}$  = 40 acres
  - D) NW  $\frac{1}{4}$  of SE  $\frac{1}{4}$  = 80 acres
  - E) SW  $\frac{1}{4}$  of SE  $\frac{1}{4}$  = 40 acres
  - F) SE  $\frac{1}{4}$  of SW  $\frac{1}{4}$  = 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       | C) wheat scab         |
| B) barley yellow dwarf virus | D) stem rust of wheat |
| C) wheat streak mosaic virus | E) leaf rust of wheat |

## 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: \_\_\_\_\_

## SEED BAG LABEL

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)\_\_\_\_\_.

## BASIC CROP SCIENCE

23. Which of the grasses displayed here is a cool-season, introduced, perennial forage crop?

ANSWER: A, B, C, or D

## BASIC CROP SCIENCE

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  |

## CROP PRODUCTS

27. What crop is the above feed ingredient made from?
- A) Corn
  - B) Wheat
  - C) Alfalfa
  - D) Soybean
  - E) Cotton

## CROP INSECT

28. This insect is
- |                     |                   |
|---------------------|-------------------|
| A) blister beetle   | D) chinch bug     |
| B) bean leaf beetle | E) alfalfa weevil |
| C) lady beetle      | F) corn rootworm  |

## CROP GROWTH AND DEVELOPMENT

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

ANSWER: A, B, C, or D

## CROP INSECT

30. This insect is:
- |                   |               |
|-------------------|---------------|
| A) alfalfa weevil | D) chinch bug |
| B) lady beetle    | E) aphid      |
| C) blister beetle | F) lacewing   |