

2011 Iowa FFA Nursery/Landscape CDE -- General Knowledge Test

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question. Place your answers onto the Scantron sheet.

- _____ 1. The specialized area of horticulture that deals with the science and practice of producing, processing, and selling high-quality seed, is _____ production.
- fertilizer
 - seed
 - soil
 - weed
- _____ 2. What structure on the underside of the leaf allows the leaf to breathe or transpire?
- stem
 - pistil
 - stoma
 - chloroplasts
- _____ 3. Which part of the root absorbs the moisture and minerals?
- root canal
 - root cap
 - medium roots
 - root hairs
- _____ 4. If green plants show a _____ color, this indicates a nitrogen deficiency.
- white
 - yellow
 - dark green
 - purple
- _____ 5. To aid in moisture retention, _____ matter is added to the soil because it holds many times its own weight in water.
- nitrogen
 - ash
 - mulch
 - organic
- _____ 6. Growth regulating substances in plants are called _____.
- particle streams
 - nitrates
 - residues
 - hormones

- ___ 15. Tubers are distinguished by their ____.
- crowns
 - leaves
 - eyes
 - stems
- ___ 16. When grafting, what is the name of the newly installed shoot or top of the plant?
- tissue
 - rootstock
 - corm
 - scion
- ___ 17. In order to have a successful graft, the two plants must ____.
- be the same size
 - be closely related
 - have similar environmental conditions
 - have similar soil conditions
- ___ 18. Side veneer grafting in evergreens is used to produce the right ____.
- color
 - size
 - wood type
 - stems
- ___ 19. Which type of bud is necessary for propagation?
- vegetative
 - big
 - fruit
 - small
- ___ 20. How soon after a T-budding should an inspection be made to see if the bud has taken?
- three days
 - one week
 - three weeks
 - eight weeks
- ___ 21. The process of budding is actually a form of ____.
- seeding
 - grafting
 - nursing
 - chipping
- ___ 22. Layering is a method of ____.
- stacking seeds
 - asexual reproduction
 - budding
 - producing vegetables

- ___ 31. Unsatisfactory weed control may result from use of the wrong ____.
- fumigant
 - toxicity
 - herbicide
 - pesticide
- ___ 32. For the accurate application of herbicides, a sprayer should be properly ____.
- cleaned
 - calibrated
 - trimmed
 - all of the above
- ___ 33. Herbicides work by upsetting the plant's ____.
- mineral supply
 - final size
 - weed potential
 - metabolism
- ___ 34. In general, a plant grown in a one-gallon container requires how much water each time it is watered?
- one gallon
 - one quart
 - one pint
 - two gallons
- ___ 35. Which of the following are important things to be considered when selecting a container for shrubs and trees?
- appearance
 - cost
 - insulation value
 - all of the above
- ___ 36. Sterile planting media, sanitary growing site, and new or sterilized containers are the best way to control which of the following?
- insects
 - growth of the plants
 - disease
 - temperature
- ___ 37. When can container-grown plants be marketed and transplanted?
- anytime the ground is not frozen
 - summer
 - spring
 - all of the above
- ___ 38. Perennials are transplanted in the ____.
- winter and summer
 - fall and spring
 - winter, spring, summer, and fall
 - summer

- ___ 47. With xeriscaping, plants are grouped together in relation to their ___ needs.
- a. fertilizer
 - b. soil
 - c. sun
 - d. water
- ___ 48. If the slope of a lawn is greater than ___ percent, then it should be covered with plants that do not require mowing.
- a. 15 percent
 - b. 5 percent
 - c. 10 percent
 - d. 25 percent
- ___ 49. When mowing a lawn, how much of the top should be removed at any one mowing?
- a. one-half
 - b. one-third
 - c. one inch left
 - d. three inches left
- ___ 50. A test that should be given to garden seeds that are more than one year old is called a ___.
- a. compatibility test
 - b. soil test
 - c. water soaking test
 - d. germination test

Iowa FFA Association
2011 Nursery/Landscape CDE
Landscape Estimation

This city property was purchased by a couple (mid-thirties, no children) that plans to remodel the older home. The landscape also needs extensive renovation of the plantings, hardscapes, and areas for outdoor activities. **NOTE:** In photocopying, the drawing is slightly compacted (about 1% or 0.1" for every 10"). Measurements on the plan to the closest whole-foot equivalent are satisfactory for all calculations.

Mark all answers carefully on your scantron sheet.

1. If a line is 8 inches long on a drawing that is designated as having a 1" = 20' scale, then it represents a line _____ long in the landscape.

- A. 64 feet
- B. 80 feet
- C. 160 feet
- D. 200 feet

2. Based on the scale given for this plan, a measurement of 100 feet equals

- A. 12 ½ inches
- B. 10 inches
- C. 8 ½ inches
- D. 6 ¼ inches

3. Based on the scale given for this plan, a measurement of 5 ¾ inches equals

- A. 57 ½ feet
- B. 92 feet
- C. 115 feet
- D. 184 feet

4. What are the lengths of the front and rear lot lines?

- A. 96 and 112 feet
- B. 112 and 96 feet
- C. 120 and 140 feet
- D. 140 and 120 feet

5. Why is there a space between the front lot line and the sidewalk?

- A. The city moved the street and sidewalk after the property was surveyed.
- B. The city owns the street and a bordering easement where the sidewalk is located.
- C. The lot line is drawn for the area to be planted, not the true property boundary.
- D. The surveyor could not drive corner stakes into the sidewalk where the actual lot corners are located.

6. If the garage measures 24 feet by 25 feet, what area does it cover?

- A. 37.5 square feet
- B. 600 square feet
- C. 1200 square feet
- D. 2401 square feet

7. Which value below is a realistic approximation of the rear lawn (turf) area, based on what can be estimated with only your ruler or scale?

- A. 4950 square feet
- B. 99,500 square feet
- C. 15,900 square feet
- D. 20,700 square feet

8. How many deciduous trees are to be installed in this plan?

- A. 8
- B. 15
- C. 17
- D. 28

9. Which of the following would be an appropriate choice for GC-2?

- A. *Brassaia heterophylla*
- B. *Cynodon dactylon*
- C. *Juniperus chinensis*
- D. *Vinca minor*

10. It takes 20 minutes for your 2-member planting crew to install and stake a medium size tree. They each earn \$10.00 per hour in wages and benefits. Your labor bill for these two workers to plant all the T-2 trees in the plan should be

- A. \$23.50
- B. \$33.00
- C. \$47.00
- D. \$56.00

11. All areas between the lawns and the mulched borders will have steel edging installed. The edging you use comes in 8-foot lengths, and you always plan an extra 10% for cutting waste. How many units should you get for 285 feet of edging in this job?

- A. 18 units
- B. 32 units
- C. 36 units
- D. 40 units

12. The water feature at the corner of the brick wall will be excavated to install a pond liner. A coping of field stone will cover the liner over the existing soil surface. If the finished size is to be 2 ½ feet wide by 7 feet long by 2 feet deep, what volume of soil needs to be excavated for the pond?

- A. 35 cubic feet
- B. 28 cubic feet
- C. 23 cubic feet
- D. 19 cubic feet

13. The area to be mulched around the garden and garage measures 1024 square feet. You will use shredded bark mulch applied in a layer 3 inches thick. This area will add _____ to your total mulch estimate.

- A. 3.3 cubic yards
- B. 9.5 cubic yards
- C. 12.7 cubic yards
- D. 38 cubic yards

14. The new brick walks and the terrace measure 1190 square feet in surface area. You buy paving bricks by the pallet of 500 units, and each pallet will cover 90 square feet in the pattern you will lay. How many pallets will you order if an extra 5% is needed for cutting and breakage?

- A. 3 pallets
- B. 13 pallets
- C. 14 pallets
- D. 225 pallets

15. You will sod the two areas of turf. They total 7500 square feet. The two sources of sod listed below will cut to order the sod type you want, and they have equivalent shipping charges.

Company A: sod in rolls = 15 inches by 12 feet long at \$2.30 per roll
Company B: sod in squares = 36 inches by 36 inches at \$1.50 per square

Which offers the lower cost for the sod you need?

- A. Company A
- B. Company B
- C. Both will cost the same
- D. There is not enough information given to compare the costs.

16. The three flower beds measure 395 square feet. Each needs organic matter added. You will provide this by mixing in a 4-inch-deep layer of peat moss. You obtain peat moss in bags that hold 6 cubic feet each. How many bags will you use?

- A. 11 bags
- B. 16 ½ bags
- C. 18 bags
- D. 22 bags

17. Down the steps from the brick terrace is an area not labeled for what it is to be. Based on the symbol you would label this area as

- A. Brick pavers
- B. Concrete with wood spacers
- C. Flagstone
- D. Mixed planting of different ground covers

18. You have 1000 square feet of bed area to be transplanted with GC-1. You planned to space the plants 12 inches on center, which will require 1000 plants. The owners asked you to space the plants 6 inches apart for faster cover on the sloping soil. At the 6-inch spacing you will need _____ as many plants.

- A. Half
- B. Two times
- C. Four times
- D. Eight times

19. Light, filtered shade from a small-leaved tree is the plan for T-2. Which plant below would you choose for this characteristic?

- A. *Gleditsia tricanthos inermis*
- B. *Ajuga reptans cv.*
- C. *Pinus strobus*
- D. *Quercus alba*

20. Your preferred nursery source for evergreens offers a discount on container plants as follows:
For each container size,

- Plants 1 – 5 = catalog price
- Plants 6 – 20 = price less 10%
- Plants 21+ = price less 25%

May combine species and cultivars within the same container size for quantity discounts.
You need E-1 and E-3 in 3-gallon containers that list at \$12.00 each, and you need E-2 and E-4 in 2-gallon containers that list at \$8.00 each. What will be your cost after discounts for these plants?

- A. \$360.40
- B. \$395.00
- C. \$432.00
- D. \$476.20

2011 Landscape Estimation

KEY

1. (C) $8'' * 20'/1'' = 160'$
2. (D) $100' * 1''/16' = 6.25'' = 6 \frac{1}{4}''$
3. (B) $5 \frac{3}{4}'' = 5.75'' * 16'/1'' = 92'$
4. (A) Front = $6'' * 16'/1'' = 96'$ (or $61/16'' = 6.0625'' * 16'/1'' = 97'$)
Rear = $7'' * 16'/1'' = 112'$ (or $71/16'' = 7.0625'' * 16'/1'' = 113'$)
5. (B) Public streets are built on a right of way owned by the city/town. Included in the right of way are the actual street and adjacent easements for sidewalks and public utilities. Owners of property adjacent to the right of way are expected to maintain the easement, which may include placement of "removable" plants but not and "permanent" structures that would interfere with utility access or future street development.
6. (B) $A = L \times W = 24' * 25' = 600 \text{ ft}^2$
7. (A) The rear lawn area is approximately rectangular, which will allow estimation with reasonable accuracy with $A = L \times W$, using the assumption that the area reduction (driveway curve) and gain (garden access) are about equal.
 $53/8'' \times 35/8'' = (53/8'' * 16'/1'') = 86' * 58' = 4988 \text{ ft}^2$
8. (B) T-1 designates existing trees
 $7(T-2) + 4(T-3) + 4(T-4) = 15$
9. (D) Continuation of the vinca now under the hemlocks is the most appropriate choice in this mostly shaded location, which would not favor the juniper. Bermuda grass and dwarf schefflera have no place in this area.
10. (C) T-2 = 7 trees to be installed
 $2 \text{ workers} * \$10.00/\text{hr} * \text{hr}/60 \text{ min} * 20 \text{ min}/\text{tree} = \6.67 tree
 $7 \text{ trees} * \$6.67/\text{tree} = \46.67
11. (D) $285' * \text{unit}/8' = 35.6 \text{ units} * 110\% = 39.2 \text{ units} \approx 40 \text{ units}$
12. (A) $V = L \times W \times D = 2 \frac{1}{2}' * 7' * 2' = 35 \text{ ft}^3$
13. (B) $3' * 1'/12'' = 0.25'$ mulch layer
 $1024 \text{ ft}^2 * 0.25 \text{ ft} = 256 \text{ ft}^3 * 1 \text{ yd}^3/27 \text{ ft}^3 = 9.48 \text{ yd}^3$
14. (C) $1190 \text{ ft}^2 * \text{pallet}/90 \text{ ft}^2 = 13.22 \text{ pallets} * 105\% = 13.88 \text{ pallets}$
15. (A) Company A: $15'' \times 12' = (15'' * 1'/12'') * 12' = 1.25' * 12' = 15 \text{ ft}^2/\text{roll}$
 $\$2.30/\text{roll} * \text{roll}/15 \text{ ft}^2 = \$0.153/\text{ft}^2$
Company B: $36'' \times 36'' = 3' * 3' = 9 \text{ ft}^2/\text{square}$
 $\$1.50/\text{square} * \text{square}/9 \text{ ft}^2 = \$0.167/\text{ft}^2$

2011 Nursery/Landscape CDE

Iowa FFA Association Assessment and Solutions Practicum

Put all answers on the scantron sheet.

Question #1: Of the areas identified on the tree, which would not be a recommended area for pruning?

- a. Area "A" b. Area "B" c. Area "C" d. Area "D"

Question #2: On area "A" of the tree shown, what is the best reason for pruning at that point?

- a. Improve form b. Improve health c. Improve appearance d. encourage flowering

Question #3: What is the correct gas to oil ratio needed for this Poulan 2055 chainsaw?

- a. 40:1 b. 32:1 c. 30:1 d. 25:1 e. 20:1

Question #4: The stirrup hoe shown does not working correctly. What is the most likely problem?

- a. dull b. broken/cracked handle c. bent d. missing a part

Question #5: A 9' x 12' area needs to be paved. Would it be cheaper to use (A) 4 inch by 8 inch pavers at \$.47 each, (B) 12 inch by 12 inch pavers at \$2.89 each, (C) 16 inch by 16 inch pavers at \$3.89 each, or (D) poured concrete at \$5.50 per cubic foot. The thickness would be 4 inches

- a. "A" b. "B" c. "C" d. "D"

Question #6: What is the size of the tree shown? (you'll need to use a caliper to determine diameter)

- a. <1 ½ inches b. 1½ to 2½ inches c. 2½ to 3 ½ inches d. > 3½ inches

Question #7: What type of brick pattern is shown?

- a. straight run b. staggered straight run c. basket weave d. herringbone

Question #8: A bag of cypress mulch covers 2 cubic feet when the mulch is placed at a depth of 3 inches. A lilac bed is 4 feet by 8 feet. How many bags would be required?

- a. < 1 b. 1 to 4 c. 5 to 8 d. > 8

Question #9: A lawn area is 40 feet wide and 80 feet long. A bag of lawn grass seed covers 1350 square feet of lawn. How many bags of lawn grass seed would be needed to seed this lawn?

- a. < 2 bags b. 2 to 3 bags c. 4 to 5 bags d. 6 to 7 bags e. >7 bags

Question #10:

The container shown (laid out) if filled with potting soil, would hold how much soil?

- a. < than 1 cubic foot b. 1 to 2 cubic feet
c. 2 to 3 cubic feet d. > than 1 cubic feet

Mr. Thompson has a lawn that is 65 feet wide and 128 feet long. He also has a flower bed that is 7 feet wide and 23 feet long. His driveway is 20 feet wide, 30 feet long and he'd like to put in brick pavers. Given the above information, determine the following four questions (11, 12, 13, and 14):

Question 11: How much will it cost to fertilize the lawn if fertilizer costs \$.02 per square foot?

- a) \$16.64 b) \$166.40 c) \$1,664.00 d) \$41.60 e) \$416.00

Question 12: In Mr. Thompson's backyard, there is a low spot with a diameter of 28 feet. He wants to have it filled with 8 inches of topsoil. How many total yards of topsoil does he need to fill it?

- a) 1.5 b) 7.8 c) 15.2 d) 19.7 e) 22.6

Question 13: The flower bed will be planted with annuals that are to be spaced every 6 inches apart. How many plants will it take?

- a) 161 b) 27 c) 322 d) 644 e) 1288

Question 14: How much will the brick pavers cost for the new driveway if he uses 6" by 6" pavers that sell for \$.89 each?

- a) 14.83 b) 133.50 c) 1196 d) 2136 e) 2613

Question 15: Jimmy Joe has an apple grove of 40 trees. It is recommended that they be mulched to a depth of 4 inches. The diameter of the mulch around the tree is 6 feet. If mulch is selling for \$28 per cubic yard and you are mulching all 40 trees, how much would it cost?

- a) \$10,445 b) \$390 c) \$373 d) \$262 e) \$3868

Question 16: The Wilson family greenhouse has 6 benches in it for growing potted flowers. Each bench is 4 feet wide and 40 feet long. The containers they will be placing onto the benches are all 4 inch by 4 inch. Approximately, how many containers of flowers will fit onto those 6 benches?

- a) 240 b) 2910 c) 5820 d) 4325 e) 8,650

Question 17: What is the area difference between the following: (a) a planting bed that is 6 feet by 8 feet, (b) a diameter that is 8 feet?

- a) they are the same b) the rectangle is larger by 1.7 square feet
c) the circle is larger by 2.24 square feet d) the circle is larger by 8.72 square feet

Question 18: Sammy is working for a local landscape company and has just did a survey and found out that from one side of a lawn to the house is 80 feet. It has an elevation distance of 2 feet. What would be the slope of that lawn?

- a) more than 12.5% b) 12.5% c) 5.0% d) 2.5% e) less than 1%

Question 19: You need to propagate English Ivy plants for the coming season. Based on the past years sales, you estimate you need to have 4,100 plants. Knowing that 8% of the cuttings will not root, how many cuttings should you take?

- a) 4428 b) 3772 c) 7872 d) 4457 e) 4754

Question 20: You wish to apply 3 pounds of live grass seed per 1000 square feet of lawn space. The grass seed you bought has a 90% germination rate. How many pounds of the seed must be applied to meet your goal? (your lawn is 110 feet wide and 140 feet long).

- a) 51.3 lbs b) 16.6 lbs c) 5.13 lbs d) 41.6 lbs e) 4.16 lbs

Key

**2011 Nursery/Landscape CDE
Iowa FFA Association
Assessment and Solutions Practicum**

Put all answers on the scantron sheet.

Question #1: Of the areas identified on the tree, which would not be a recommended area for pruning?

- a. Area "A" b. Area "B" c. Area "C" d. Area "D"

Question #2: On area "A" of the tree shown, what is the best reason for pruning at that point?

- a. Improve form b. Improve health c. Improve appearance d. encourage flowering

Question #3: What is the correct gas to oil ratio needed for this Poulan 2055 chainsaw?

- a. 40:1 b. 32:1 c. 30:1 d. 25:1 e. **20:1**

Question #4: The stirrup hoe shown does not working correctly. What is the most likely problem?

- a. dull b. broken/cracked handle c. **bent** d. missing a part

Question #5: The 9' x 12' area designated by the enclosed area needs to be paved. Would it be cheaper to use (A) 4 inch by 8 inch pavers at \$.47 each, (B) 12 inch by 12 inch pavers at \$2.89 each, (C) 16 inch by 16 inch pavers at \$3.89 each, or (D) poured concrete at \$5.50 per cubic foot. The thickness would be 4 inches

- a. "A" b. "B" c. "C" d. **"D"**

Question #6: What is the size of the tree shown? (you'll need to use a caliper to determine diameter)

- a. <1½ inches b. **1½ to 2½ inches** c. 2½ to 3½ inches d. > 3½ inches

Question #7: What type of brick pattern is shown?

- a. straight run b. staggered straight run c. **basket weave** d. herringbone

Question #8: A bag of cypress mulch covers 2 cubic feet when the mulch is placed at a depth of 3 inches. A lilac bed is 4 feet by 8 feet. How many bags would be required?

- a. < 1 b. **1 to 4** c. 5 to 8 d. > 8

Question #9: A lawn area is 40 feet wide and 80 feet long. How many bags of lawn grass seed (as set out) would be needed to seed this lawn?

- a. < 2 bags b. 2 to 3 bags c. 4 to 5 bags d. 6 to 7 bags e. >7 bags

Question #10:

The container shown (laid out) if filled with potting soil, would hold how much soil?

- a. < than 1 cubic foot b. **1 to 2 cubic feet**
c. 2 to 3 cubic feet d. > than 1 cubic feet

Mr. Thompson has a lawn that is 65 feet wide and 128 feet long. He also has a flower bed that is 7 feet wide and 23 feet long. His driveway is 20 feet wide, 30 feet long and he'd like to put in brick pavers. Given the above information, determine the following four questions (11, 12, 13, and 14):

Question 11: How much will it cost to fertilizer the lawn if fertilizer costs \$.02 per square foot?

- a) \$16.64 b) **\$166.40** c) \$1,664.00 d) \$41.60 e) \$416.00

Question 12: In Mr. Thompson's backyard, there is a low spot with a diameter of 28 feet. He wants to have it filled with 8 inches of topsoil. How many total yards of topsoil does he need to fill it?

- a) 1.5 b) 7.8 c) **15.2** d) 19.7 e) 22.6

Question 13: The flower bed will be planted with annuals that are to be spaced every 6 inches apart. How many plants will it take?

- a) 161 b) 27 c) 322 d) **644** e) 1288

Question 14: How much will the brick pavers cost for the new driveway if he uses 6" by 6" pavers that sell for \$.89 each?

- a) 14.83 b) 133.50 c) 1196 d) **2136** e) 2613

Question 15: Jimmy Joe has an apple grove of 40 trees. It is recommended that they be mulched to a depth of 4 inches. The diameter of the mulch around the tree is 6 feet. If mulch is selling for \$28 per cubic yard and you are mulching all 40 trees, how much would it cost?

- a) \$10,445 b) **\$390** c) \$373 d) \$262 e) \$3868

Question 16: The Wilson family greenhouse has 6 benches in it for growing potted flowers. Each bench is 4 feet wide and 40 feet long. The containers they will be placing onto the benches are all 4 inch by 4 inch. Approximately, how many containers of flowers will fit onto those 6 benches?

- a) 240 b) 2910 c) 5820 d) 4325 e) **8,650**

Question 17: What is the area difference between the following: (a) a planting bed that is 6 feet by 8 feet, (b) a diameter that is 8 feet?

- a) they are the same b) the rectangle is larger by 1.7 square feet
c) **the circle is larger by 2.24 square feet** d) the circle is larger by 8.72 square feet

Question 18: Sammy is working for a local landscape company and has just did a survey and found out that from one side of a lawn to the house is 80 feet. It has an elevation distance of 2 feet. What would be the slope of that lawn?

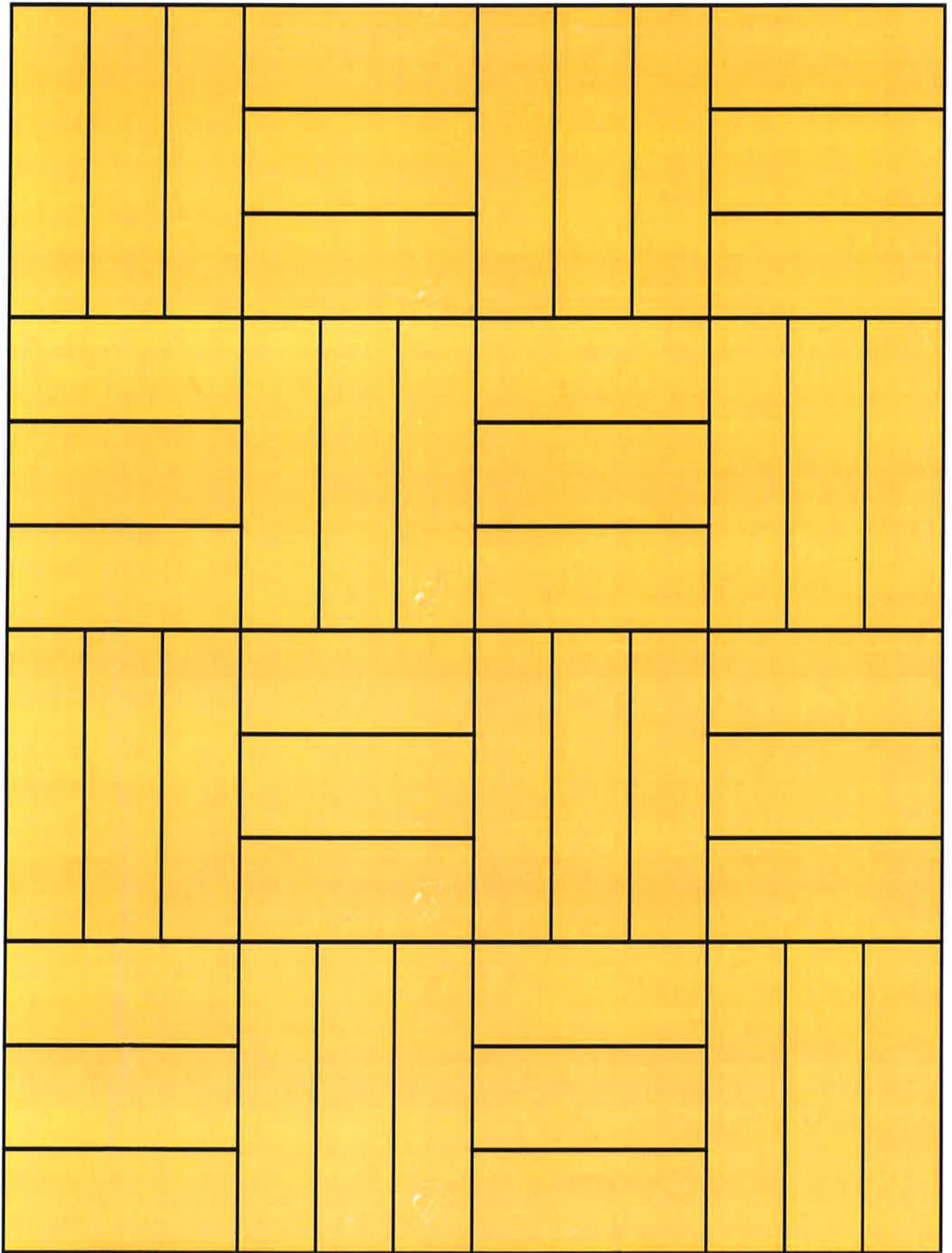
- a) more than 12.5% b) 12.5% c) 5.0% d) **2.5%** e) less than 1%

Question 19: You need to propagate English Ivy plants for the coming season. Based on the past years sales, you estimate you need to have 4,100 plants. Knowing that 8% of the cuttings will not root, how many cuttings should you take?

- a) 4428 b) 3772 c) 7872 d) **4457** e) 4754

Question 20: You wish to apply 3 pounds of live grass seed per 1000 square feet of lawn space. The grass seed you bought has a 90% germination rate. How many pounds of the seed must be applied to meet your goal? (your lawn is 110 feet wide and 140 feet long).

- a) **51.3 lbs** b) 16.6 lbs c) 5.13 lbs d) 41.6 lbs e) 4.16 lbs



Name _____

Iowa FFA Association

Nursery/Landscape CDE – Landscape Design

Instructions:

- Position your grid paper with the labels readable at the top.
- Draw the plan described below in pencil on this grid paper.
- Draw the plan using the scale of 1'' = 8'. (each square is 2 feet)
- Print neat labels to identify each item below that is identified in boldface type.
- DO NOT label dimensions, and DO NOT draw in bricks.

Specifications: Entrance Landscape for The Office

Property to be developed:

- Georgia Street is labeled at the top of the page. The single line below that name is the curb.
- Draw another line 6' below the curb line to designate the other edge of the existing city sidewalk.
- Draw a double line 60' from the street curb to represent the building exterior wall. Make this front wall 52' long.

Compass:

Georgia Street runs E and W, and this building is on the S side of the street.

Office Entrance:

Select a grid point at the middle of the building wall. This is the middle of the entrance doorway.

Draw this doorway as two doors, each 3' wide, opening outward from the center.

A 12 foot wide **brick patio** is centered on the doorway, extending 6' each way across the building front (from middle of door) and 8' toward the street.

A **concrete sidewalk**, 6' wide and centered on the entrance doorway, extends from the brick patio to the city sidewalk.

Name _____

A **second concrete sidewalk**, 4' wide, connects the entrance sidewalk to the parking area located on the W side of this building. (Parking area will not be drawn in this plan.) The South edge of this sidewalk is 30' from the building front wall.

A **brick planter** is located 10' from the East side of the entrance sidewalk and 10' from the city sidewalk. It is 6 feet long (parallel to city sidewalk) by 4 feet wide (parallel to entrance walk).

Business Sign Post:

12" diameter, centered in brick planter.

Plantings:

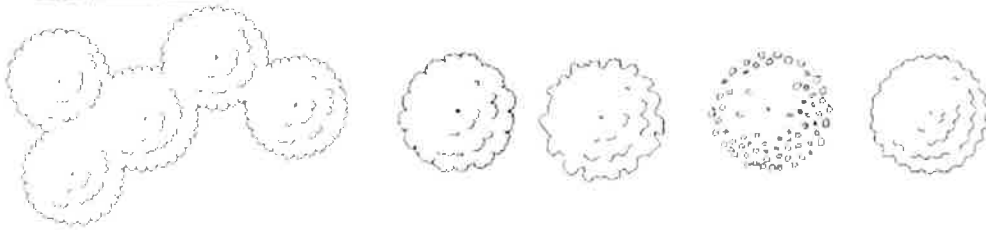
- **Amur Maple** – 16' spread, located 10' W and 30' N of the E building corner.
- **Burning bushes** – two, 4' spread, placed with one on each side of the entrance patio.
- **Perennial flowers** – in 4' wide beds extending from burning bushes to the office building front corners.
- **Annuals** – for color in the sign planter.
- **Turf** will be planted in all remaining areas across the building front. -- for all of these, you choose the appropriate symbols and label method as needed

Either label or use appropriate industry symbols for the above items on your design (see attached pages for choices):

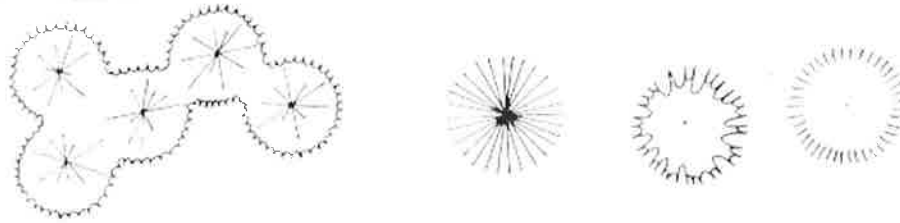
- Sidewalks
- Planter with business sign post
- Patio
- Amur Maple
- Burning bushes
- Perennial flowers
- Annuals
- Turf grass

Name _____

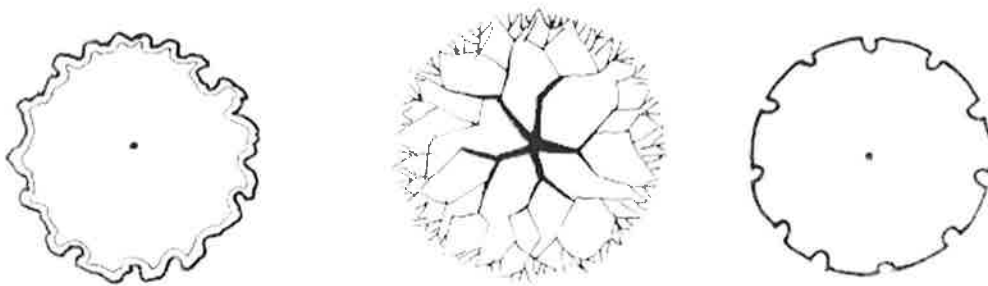
Deciduous shrubs



Evergreen shrubs

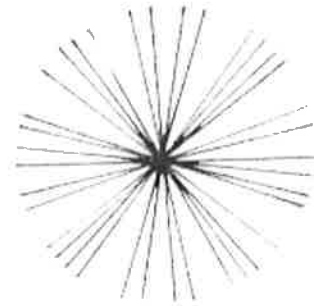
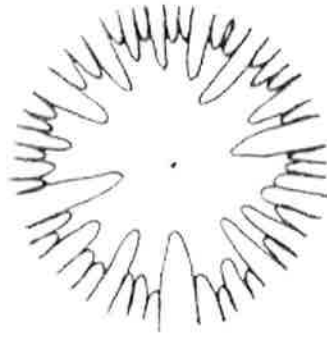
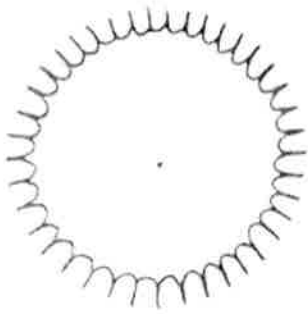


Large deciduous trees

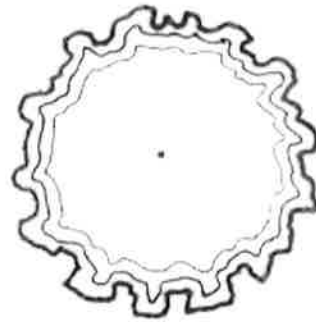
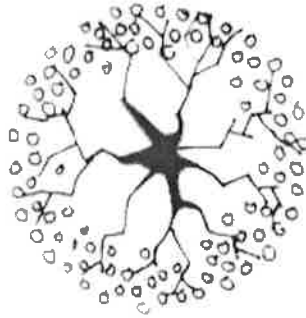
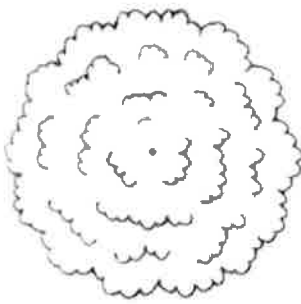


Name _____

Large evergreen trees



Ornamental trees



Groundcovers



Name _____

Deciduous Shrubs



deciduous group plan view



deciduous mass planting plan view

Evergreen Shrubs and Grasses



evergreen shrub

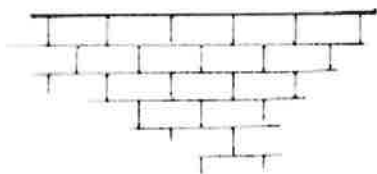


evergreen spreader

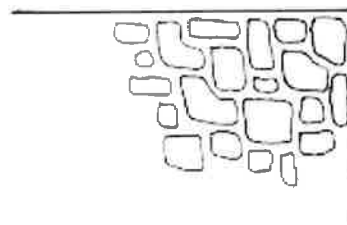


grass or perennial

Decks and patios



Brick



Stone

Name _____

Scorecard:

Component	Value	Points		
		Possible	Earned	
City Sidewalk	Correct size/placement	1	_____	
	Properly labeled	1	_____	
Building Wall	Correct size/placement	1	_____	
	Appropriate symbol/label	1	_____	
Doorway	Correct size/placement	1	_____	
Brick Patio	Correct size/placement	3	_____	
	Properly labeled	1	_____	
Entrance/Parking Walks	Correct size/placement	4	_____	
	Properly labeled	1	_____	
Brick Planter	Correct size/placement	3	_____	
	Properly labeled	1	_____	
Sign Post	Correct size/placement	2	_____	
	Properly labeled	1	_____	
Plants –	Amur Maple	Correct size/placement	4	_____
		Appropriate symbol/label	1	_____
	Burning bush (2)	Correct size/placement	4	_____
		Appropriate symbol/label	1	_____
	Perennials	Correct size/placement	4	_____
	Appropriate symbol/label	1	_____	
Annuals	Correct size/placement	1	_____	
	Appropriate symbol/label	1	_____	
Turf	Appropriate symbol/label	1	_____	
Other labels	Plan scale designated	4	_____	
	Compass designated	4	_____	
Neatness of plan	Clean erasures, smudge-free	3	_____	
Total		50	_____	

Name _____



Georgia Street

The Office