2010 North Dakota State FFA Nursery/Landscaping Career Development Event Written Exam

Please record your answers on the computer scorecard that has been provided. You must use a No.2 pencil. Please **do not** write on this test. (5 points each)

 Which type of mower is generally used A. Vertical mower B. Rotary mower 	on golf greens for regular mowing? C. Reel mower D. Flail mower
2. The water table should be landscape. A. within 12" B. between 18 and 24"	of the soil surface for most plants in growing the C. within 24" D. well below 24"
 Many insects are attracted to, w A. Yellow B. Red 	which is the color often used in sticky tapes. C. Violet D. Black
 When planting a balled and burlapped from around the trunk to prevent: A. rodent chewing. B. girdling. 	tree, care should be given to unwrap or untie any materials C. trunk twist. D. guying.
 Many landscape equipment engines re us a(n) to supply the extra A. slinger gear B. primer bulb or choke 	
 Which of the following can be added to A. glucose B. powdered lime 	o soil in order to increase pH? C. sulfur D. water
 The most important benefit of using muta. A. conserve soil moisture. B. maintain soil temperature. 	C. add nutrients.
8. What gives green leaves their color?A. ChlorophyllB. Sugars	C. Carbon Dioxide D. Oxygen
 PVC pipe is assembled in the irrigation A. wax B. solder 	n system using C. glue D. hemp packing
10. What is the purpose of surfactants us A. to help the spreading and B. to provide nutrients to the C. to control plant diseases D. to assist a plant in absor	d wetting ability of spray materials e plants
11. Deciduous bare root plants obtained i should be to preserve ther A. hardened-off B. layered	in the dormant season that cannot be planted immediately muntil they can be planted. C. callused D. heeled-in

12. If a customer wants an organic fertingA. Sodium ChlorideB. Leaf Mulch	ilizer, which of the following would be the best choice? C. Pine Needles D. Sheep manure
13. Which item would be a fixed cost ofA. tractor paymentsB. weed barrier & bark mulch	running a landscape maintenance company? C. meal expenses D. employee holiday bonuses
14. Which of these describes the best verse.	way to prepare earplugs for insertion into your
A. heat to body temperatureB. both stretch and twist the ear	C. remove from a co-workers head plug D. roll the earplug in your hands
15. Soils used for starting seeds and rogenA. sterilizedB. homogenized	ot cuttings in the nursery should be: C. pasteurized D. stratified
16. Crown Gall is caused by:A. FertilizerB. Insects	C. Bacteria D. High sap pressure
17. The word 'alba' in a plant name usu A. red. B. blue	ally means that the blooms will be: C. white. D. pink.
18. Which of the following mulches mon A. Fresh Grass Clippings B. Pumice	st often becomes moldy when it is wet and applied too thick? C. Glass bead D. Shredded Bark
19. The purpose of spraying an antides is to:	iccant on newly harvested landscape plants prior to shipping
A. increase photosynthesis.B. reduce moisture loss from lear	C. reduce pit odor. ves. D. improve color.
20. Which of the following is a turfgrass A. Dead Spot B. Fairy Ring	disorder associated with buried wood/stumps etc. C. Rust D. Leaf Spot
 Plants intended for resale to the co and landscape companies from A. certified B. wholesale 	nsumer are purchased by businesses such as garden centers nurseries. C. mill D. privately owned
A biological agent or virus that canA. BSEB. Bactericide	cause a disease is known as a(n): C. Pathogen D. Prion
23. Cuttings of plants that are difficult to rooting and applying rooting hormone. A. de-barked B. pinched	root are often to increase the surface area for C. pruned D. wounded
24. A plant whose young leaves exhibit suffering fromdeficiency.A. lactoseB. iron	t yellow between the veins while the veins remain green is C. Vitamin D D. light

25.	How are cold frames normally used in plan A. to provide moisture control B. to eliminate disease & insects	t production nurseries? C. to provide low temperature protection D. to eliminate snow scald
	ter than either of the parents? A. crossbreeding	of two un-alike plants, resulting in offspring that are
	B. heterosis	D. symbiosis
27.	Which of these is a safety feature on a cha A. Chain Brake B. Braille Instructions	ainsaw? C. Back up horn D. GFCI switch
28.	Insects are categorized into two major feed feeders.	ling types for control purposes. These are
	A. xylem and phloem B. day and night	C. top and bottom D. chewing and sucking
29.	Many insect traps use chemical attractants A. catalysts B. fungicides	called to lure insects into the trap. C. pathogens D. pheromones
	Foundation plants of a home landscape that oor of the home is an application of this print A. diversity B. balance	at are arranged to move the viewer's eye to the from ciple of design. C. focalization D. simplicity
31.	Plants that have gracefully drooping limbs	are often described in horticultural terms as being
	A. withering B. floppy	C. weeping D. sagging
32.	Which of the following would be the <u>least</u> d A. fresh saw dust B. aged manure	esirable material to be used as a soil amendment? C. composted leaves D. peat moss
33.	Repetition of plants or groups of plants in the design?	ne landscape helps to achieve which principle of
	A. Focalization B. Unity	C. Balance D. Variance
34.	Which process occurs the longest into the A. cork growth B. root growth	fall in the developing tree? C. fruit set D. trunk radius growth
35.	Which of the following is true about flower A. the pollen is male B. the filament is female	parts? C. the stigma is male D. all of these are true
	Small, corky pores along the stem that allow ant cells are:	w for gas exchange between the atmosphere and
	A. bud scales B. internodes	C. terminal buds D. lenticels
37.	The modification/weakening of a seed coat A. cold-stratification B. warm-stratification	so that the seed may germinate is called: C. double stratification D. scarification

38. A method of lawn establishment that uses is known as:	cores or small pieces of turf planted a few inches apart
A. PluggingB. Perforation Mottling	C. Perforation D. Zitting
39. A disorder of plants called 'wind burn' is caA. wind friction to stems.B. desiccation of plant tissues	C. hydration of plant tissues
40. The openings around soil particles that holA. reservoirsB. bubbles	d air or water are called: C. stoma D. pore spaces
41. The skeletal structure found on the outsideA. armor.B. exoskeleton.	of an insect's body is called: C. gross. D. skin.
42. A common fungal disease infecting newly (A. black spot B. fire blight	germinated seeds and seedlings is: C. gout D. damping-off
43. This organism is both the smallest and haA. BacteriaB. Fungus	s no pesticide to control the diseases it causes. C. Thrip D. Virus
44. Most of the feeding roots of a tree can be f A. 1 and 12 B. 10 and 30	ound between inches deep. C. 10 and 50 D. 10 and 60
45. Which of the following is not a term used in A. rain sensor B. pop-up sprinkler	turf irrigation system installation? C. vertical valve D. backflow prevention valve
46. The horticultural term for the premature orA. BoltingB. Pregnancy	unwanted production of flowers and seeds is: C. Tillering D. Puberty
47. When mowing turf, it is recommended that be removed at each cutting.A. 1/16	t no more than of the leaf blade C. 1/3
B. 1/4	D. 3/4
48. Which of these is used to alleviate pressur caused by water?	e on stone and masonry retaining walls that may be
A. Dead-man brace B. Weep holes	C. Catch basins D. Vermiculite
49. The home landscape is generally divided area.	into three areas, the private, service and
A. formal B. foundation	C. public D. neighboring
50. If a plant does not "breed true" from seeds A. most of the offspring to be of average B. most of the offspring to exhibit hybrid C. all of the offspring to be sterile. D. a genetic variation in the offspring.	quality.

2010 ND State FFA Nursery/Landscaping Career Development Event Written Exam Key

1. C
2. D
3. A
4. B
5. B
6. B
7. A
8. A
9. C
10. A
11. D
12. D
13. A
14. D
15. C
16. C
17. C
18. A
19. B

20. B

21. B

22. C

23. D

24. B

25. C

26. B
27. A
28. D
29. D
30. C
31. C
32. A
33. C
34. B
35. A
36. D
37. D
38. A
39. B
40. D
41. B
42. D
43. D
44. A
45. C
46. A
47. C
48. B
49. C
50. D

INFORMATION PROVIDED TO THE CONTESTANT

- 1. Shop: Campus Garden Center.
- 2. Salesperson: Identify yourself by contest number or by first name.
- 3. Address: As shown on form SFN 7206.
- 4. Delivery Policy: Free delivery in the Fargo area with any order over \$50.00. 15% on orders under \$50.00 (non-taxable)
- 5. Installation: 65% of the purchase price (\$20.00 minimum).
- 6. Taxes: <u>6% on sales</u>. No tax on labor.
- 7. Shop hours: 8:00 AM to 6:00 PM, Monday thru Saturday

Services Available:

- 1. A full line of trees and shrubs in a large variety of sizes.
- 2. Professional landscapers on hand to help you with your planning.
- 3. Delivery service.
- 4. Installation service.
- 5. A full line of chemicals and fertilizers.
- 6. A plant diagnostic specialist is on staff.
- 7. A wide variety of landscape timber, stone, rock and chip is available.

Potted Evergreens

Variety	1 gal.	2 gal.	5 gal.
Creeping Juniper	\$9.99	\$14.99	
Maney Juniper	\$9.99	\$14.99	
Pfitzer	\$10.49	\$15.49	\$27.99
Savin Juniper	\$10.49	\$15.49	\$27.99
Rocky Mountain Juniper	\$8.99	\$13.99	\$23.99
Globe Arborvitae	\$8.99	\$12.99	\$31.99
Pyramidal Arborvitae	\$11.99	\$16.99	\$34.99
Japanese Yew	\$11.99	\$24.99	
Mugo Pine	\$8.69	\$19.99	
Black Hills Spruce	\$10.99	\$16.99	\$21.99
Colorado Spruce	\$9.99	\$15.99	\$20.99
Ponderosa Pine	\$8.99	\$16.99	\$20.99
White Pine	\$8.99	\$16.99	\$20.99
Scotch Pine	\$8.99	\$16.99	\$20.99
Larch*	\$6.99	\$12.99	\$18.99

^{*}deciduous

Shade Trees	Bare Root	2-4 feet	4-7 feet	5-12 feet	8-14 feet
		(height)	(height)	(height)	(height)
All common varieties	\$3.49	\$16.99	\$21.99	\$43.89	\$72.99
Maples (All Varieties)		Buckeye		Birch (All	Varieties)
Ash		Walnut		Poplar	
Aspen		Cottonwood	d	Oak	
Willow (All Varieties)		Linden (All	Varieties)	Elm	
Russian Olive		Mountain Ash		Hawthorn	
<u>Ornamentals</u>					
Variety		1 gal.	2 gal.	5 gal.	
Flowering Crab		\$5.99	\$8.99	\$17.99	
Flowering Plum		\$5.99	\$8.99	\$17.99	
Chokecherry (A.V.)		\$4.99	\$8.99	\$16.99	
Lilac		\$8.99	\$16.99		
Mockorange		\$13.99	\$18.99		
Japanese Barberry		\$11.99	\$17.99		
Dogwood		\$9.99	\$16.99		
Shrubs and Hedges					
Caragana		\$3.89	\$6.89		
Cotoneaster		\$3.89	\$6.89		
Dotantillo		04.20	¢0.20		

\$4.79/6"pot

Caragana	Ψ3.67	Ψ0.07
Cotoneaster	\$3.89	\$6.89
Potentilla	\$4.29	\$8.29
Tallhedge	\$4.39	\$7.89
Rhododendron	\$15.99	\$34.99

Misc.

Artemesia	\$1.79/4"pot
Clematis	\$2.79/4"pot
Boston Ivy	\$4.49/4"pot
Virginia Creeper	\$4.69/4"pot
Yucca	\$2.89/4"pot
Wood Chips (2 cu. ft. bag)	\$4.75/bag

North Dakota State FFA Nursery/Landscape CDE 2010

Judges Sheet

Information offered to the contestant

All of my shrubs around the house where damaged by snow and ice this past winter. I have torn them out and want to replace them. I also want to put wood chips down for mulch.

Information provided when requested by the contestant

I would like six (6) Globe Arborvitae, the smallest you have, four(4) Globe Arborvitae, the largest available, and lastly one (1) Larch, the largest you carry.

The 2 areas for the wood chips and plantings are each; 4' wide X 12' long, located on both sides of my front porch.

I would like you to put wood chips in the area.

I would like to have them installed by June 26, 2010

I will have locations marked for the plantings

I will pay cash upon completion.

Name: Ole Benloggin

1211 Forest Ave North

Fargo, ND 58102

Phone: 701-252-4228 Cell: 218-840-3366

Light Blue House with attached garage