

# National Junior Horticultural Association



## Rules and Regulations

8/24/2016

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Many of the important terms in this manual have been denoted by italics, bold or other highlights of text to help facilitate learning. References to products in this publication are not intended to be an endorsement to the exclusion of others which may be similar. The sole intent is to simplify these educational materials. Suggestions and corrections should be forwarded to: Michael Rethwisch, NJHA National Program Chairman, 290 North Broadway, Blythe, CA 92225. E-mail: [mdrethwisch@ucdavis.edu](mailto:mdrethwisch@ucdavis.edu)

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## Rules and Regulations

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# Horticulture Identification and Judging Contest

## Purpose

The production, marketing and buying of fruit, vegetable, flower and ornamental crops requires a detailed knowledge of many subject matter disciplines. This contest is a training program concerned with teaching youth to recognize and identify some of the most important horticultural crops, to learn criteria influencing quality and to be able to answer questions and solve problems relating to the art and science of horticulture.

## Rules and Regulations

A. The contest has seven (8) divisions.

1. 4-H Team (age 15-19) – 3 or 4 individuals
2. FFA team(s) (age 15-20) – 3 or 4 individuals
3. Open Team(s) (age 15-18) – 3 or 4 individuals
4. Open Team(s) (age 19-22) – 3 or 4 individuals
5. Open Individual(s) (age 15-18)
6. Open Individual(s) (age 19-22)
7. Honors — open to individuals who have placed first in any division either as an individual or as a team.
8. Grange Team (age 15-22) – 3 or 4 individuals

B. Contestants who have previously placed first (Grand National Award Winner) or been a member of a first place team in the 4-H, FFA, or Open Divisions will participate in the Honors Division.

C. The top individual in the Honors Division is automatically ineligible for further competition.

D. Special 4-H rules:

1. Only teams of three or four members may compete.
2. Individuals who have previously competed in any division of this contest at the national level are ineligible to compete in the 4-H division.

3. College students who have completed two or more terms or semesters of college; or who have competed in collegiate events of a similar nature or similar subject matter are not eligible to compete in the 4-H division.

E. Coaches and other individuals not competing in the contest will not be allowed in the contest room while the contest is being conducted. After the last paper has been turned in the contest room will be open for observation and photography of the identification and judging sections. Answers will placed on the entries.

F. Entry Deadline: **September 15**. Consult with your leader for additional information.

## Contest Format

The horticulture contest consists of three sections (Judging – 80 points, Identification – 200 points (250 for honors) and Horticultural Knowledge – 160 points) giving a total point score of 440 points (490 for honors).

### Judging

Eight classes of four (4) plates each will be judged on the basis of condition, quality, uniformity, true-to-type, and size. Two classes will be taken from the list of four commodity groups to be identified/judged (fruits and nuts, vegetables and herbs, flowering and indoor plants and woody ornamentals). Plates in each class will be ranked from first to last. Scores will be determined by a Hormel calculator. Oral reasons will not be required of contestants.

### Information

Eighty (80) objective questions (true-false and multiple choice) will be taken from information in this study manual and on this section of the website. Questions will test the contestant's knowledge of cultural practices for horticultural crops, plant science, pesticides, horticultural careers and other topics related to the production, processing and consumption of horticultural crops.

### Identification

One hundred samples (100) will make up the third segment of the contest. Twenty-five (25) samples will be taken from each of the four (4) commodity groups. These commodity groups will be separated onto different tables and the participant will have a complete list of all items which could potentially appear. Specimens may be alive or preserved plant parts such as, but not limited to: stems, twigs, leaves, flowers, seeds, fruits, roots, bulbs, tubers, or plant products. A list of appropriate plant parts follows later in this chapter.

Participants in the honors division of the contest will identify 25 additional specimens. The specimens will come from all four groups and will not be segregated by category (randomly mixed).

### Awards

Up to 5 teams and 10 individuals may receive medals based on the number of entries in each division. The top individual and team will receive gold medals; second place when awarded will receive silver medals; and any other placements awarded will receive copper medals. The top team in each division will also receive a plaque.

Top individuals in each of the divisions may also be eligible for a cash prize when available. The highest overall scoring individual of all the divisions is also eligible for a monetary prize in years that monies for such are available.

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Plant List for Identifying and Judging – Flowers and Indoor Plants

Plant Name/Type	Foliage/ Plant	Flower	Fruit, Nut or Edible Portion	Seed or Pit	Seedpod or Cone	Storage Organ
African Violet <i>Saintpaulia ionntha</i>	X	X				
Ageratum <i>Ageratum houstonianum</i>	X	X		X		
Amaryllis <i>Hippeastrum</i> hybrids	X	X				X
Bachelor Button <i>Centaurea cyanus</i>	X	X		X		
Begonia <i>Begonia</i> sp.	X	X				
Canna <i>Canna x generalis</i>	X	X				X
Celosia <i>Celosia</i> sp.	X	X		X		
Chrysanthemum <i>Chrysanthemum x morifolium</i>	X	X				
Coleus <i>Solenostemon scutellarioides</i>	X	X				
Columbine <i>Aquilegia x hybrida</i>	X	X		X		
Coralbell <i>Huechera</i> sp.	X	X				
Cosmos <i>Cosmos bipinnatus, C. sulphureus</i>	X	X		X		
Cranesbill <i>Geranium</i> sp.	X	X			X	
Crocus	X	X				X
Daffodil <i>Narcissus</i> sp.	X	X				X
Dahlia <i>Dahlia</i> hybrids	X	X		X		X
Daylily <i>Hemerocallis</i> sp.	X	X			X	X
Dianthus spp. <i>Dianthus</i> sp.	X	X		X		
Dracaena <i>Dracaena</i> sp.	X					
Dumbcane/ Dieffenbachia <i>Dieffenbachia</i> sp.	X					
Ficus sp. <i>Ficus</i> sp.	X			X		
Geranium <i>Pelargonium</i> sp.	X	X			X	
Gladiolus <i>Gladiolus x hortulanus</i>	X	X				X

Plant Name/Type	Foliage/ Plant	Flower	Fruit, Nut or Edible Portion	Seed or Pit	Seedpod or Cone	Storage Organ
Hollyhock <i>Alcea rosea</i>	X	X		X	X	
Hosta <i>Hosta</i> sp.	X	X			X	
Hyacinth <i>Hyacinthus orientalis</i>	X	X				X
Impatiens <i>Impatiens walleriana</i> , <i>Impatiens hawkeri</i>	X	X		X	X	
Iris <i>Iris</i> sp.	X	X			X	X
Lily (Easter, Asiatic, Oriental) <i>Lilium</i> sp.	X	X				X
Marigold <i>Tagetes erecta</i> , <i>T. patula</i>	X	X		X		
Nasturtium <i>Tropaeolum majus</i>	X	X		X		
Pansy <i>Viola x wittrockiana</i>	X	X		X		
Peony <i>Paeonia</i> hybrids	X	X			X	X
Peperomia <i>Peperomia</i> sp.	X	X				
Petunia <i>Petunia x hybrida</i>	X	X		X		
Philodendron <i>Philodendron</i> sp.	X					
Purple Coneflower <i>Echinacea</i> sp.	X	X		X		
Rose <i>Rosa</i> sp.	X	X	X	X		
Salvia <i>Salvia</i> sp.	X	X				
Schefflera <i>Schefflera</i> sp.	X	X				
Sedum <i>Sedum</i> sp.	X	X				
Snakeplant/ Sanseveria <i>Sanseveria trifasciata</i> , <i>Sanseveria</i> sp.	X	X				
Snapdragon <i>Antirrhinum majus</i>	X	X		X		
Tulip <i>Tulipa</i> sp.	X	X				X
Zinnia <i>Zinnia</i> sp.	X	X		X		

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Plant List for Identifying and Judging – Landscape Ornamentals

Plant Name/Type	Foliage/ Plant	Flower	Fruit, Nut or Edible Portion	Seed or Pit	Seedpod or Cone	Storage Organ
Arborvitae <i>Thuja</i> spp.	X			X	X	
Ash <i>Fraxinus</i> spp.	X			X		
Azalea, Rhododendron <i>Rhododendron</i> spp.	X	X		X		
Beech <i>Fagus</i> spp.	X			X	X	
Birch <i>Betula</i> spp.	X			X	X	
Boxwood <i>Buxus</i> spp.	X					
Camellia <i>Camellia</i> sp.	X	X			X	
Cedar <i>Cedrus</i> sp.	X				X	
Cottonwood/ Poplar <i>Populus</i> spp.	X			X	X	
Crapemyrtle <i>Lagerstroemia</i> sp.	X	X	X	X		
Dogwood <i>Cornus</i> spp.	X	X	X			
Elm <i>Ulmus</i> spp.	X			X		
English Ivy <i>Hedera helix</i>	X					
Euonymus <i>Euonymus</i> spp.	X			X	X	
Fir <i>Abies</i> spp.	X			X	X	
Forsythia <i>Forsythia</i> spp.	X	X				
Ginkgo <i>Ginkgo biloba</i>	X		X	X		
Hawthorn <i>Crataegus</i> spp.	X		X			
Hemlock <i>Tsuga</i> spp.	X			X	X	
Hibiscus <i>Hibiscus</i> sp.	X	X		X	X	
Holly <i>Ilex</i> spp.	X		X			
Honey locust <i>Gleditsia</i> spp.	X			X	X	
Hydrangea <i>Hydrangea</i> spp.	X	X				
Juniper <i>Juniperus</i> sp.	X		X	X		

Plant Name/Type	Foliage/ Plant	Flower	Fruit, Nut or Edible Portion	Seed or Pit	Seedpod or Cone	Storage Organ
Lilac <i>Syringa</i> spp.	X	X		X	X	
Linden <i>Tilia</i> sp.	X	X		X		
Magnolia <i>Magnolia</i> spp.	X	X		X	X	
Maple <i>Acer</i> spp.	X			X		
Nandina <i>Nandina</i> spp.	X	X	X			
Oak <i>Quercus</i> spp.	X			X		
Periwinkle (Vinca spp. ) <i>Vinca</i> spp.	X	X				
Photinia <i>Photinia</i> spp.	X	X				
Pine <i>Pinus</i> spp.	X			X	X	
Pittosporum <i>Pittosporum tobira</i>	X			X	X	
Planetree <i>Platanus</i> sp.	X			X	X	
Potentilla <i>Potentilla fruticosa</i>	X				X	
Redbud <i>Cercis</i> sp.	X	X		X	X	
Spirea <i>Spiraea</i> sp.	X	X				
Spruce <i>Picea</i> spp.	X			X	X	
Sweetgum <i>Liquidambar styraciflua</i>	X				X	
Viburnum <i>Viburnum</i> sp.	X	X	X			
Willow <i>Salix</i> sp.	X					
Wisteria <i>Wisteria</i> spp.	X	X		X		
Yew <i>Taxus</i> spp.	X		X	X		
Yucca <i>Yucca</i> sp.	X	X	X	X		

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Plant List for Identifying and Judging – Fruits, Nuts and Berries

Plant Name/Type	Foliage/ Plant	Flower	Fruit, Nut or Edible Portion	Seed or Pit	Seedpod or Cone	Storage Organ
Almond <i>Prunus amygdalus</i>	X		X	X		
Apple <i>Malus domestica</i>	X		X	X		
Apricot <i>Prunus armeniaca</i>	X	X	X	X		
Avocado <i>Persea americana</i>	X		X	X		
Banana <i>Musa x paradisiaca</i>	X	X	X			
Blackberry <i>Rubus hybrids</i>	X		X			
Black walnut <i>Juglans nigra</i>	X		X			
Blueberry <i>Vaccinium sp.</i>	X	X	X			
Brazil Nut <i>Bertholletia excelsa</i>			X	X	X	
Butternut <i>Juglans cinerea</i>	X		X	X		
Cherry <i>Prunus cerasus, P. avium</i>	X		X	X		
Chestnut <i>Castanea mollissima</i> (Chinese)	X		X	X		
Coconut <i>Cocos nucifera</i>	X		X	X		
Coffee <i>Coffea sp.</i>	X	X	X	X		
Cranberry <i>Vaccinium macrocarpon</i>	X		X			
Currant <i>Ribes spp.</i>	X		X			
Date <i>Phoenix dactylifera</i>	X		X	X		
Elderberry <i>Sambucus canadensis</i>	X	X	X			
English walnut <i>Juglans regia</i>	X		X			
Fig <i>Ficus carica</i>	X		X			
Filbert <i>Corylus avellana</i>	X		X	X		
Goosberry <i>Ribes spp.</i>	X		X			
Grape <i>Vitis spp.</i>	X		X	X		

Plant Name/Type	Foliage/ Plant	Flower	Fruit, Nut or Edible Portion	Seed or Pit	Seedpod or Cone	Storage Organ
Grapefruit <i>Citrus paradisi</i>	X		X	X		
Guava <i>Psidium guajava</i>	X	X	X	X		
Kiwi <i>Actinidia chinensis</i>	X		X			
Kumquat <i>Fortunella spp.</i>	X		X			
Lemon <i>Citrus limon</i>	X		X			
Macadamia Nut <i>Macadamia sp.</i>	X		X			
Mango <i>Mangifera indica</i>	X		X	X		
Mulberry <i>Morus alba</i>	X		X			
Nectarine/Peach <i>Prunus persica</i>	X	X	X	X		
Olive <i>Olea europaea</i>	X		X	X		
Orange <i>Citrus sinensis</i>	X		X			
Papaya <i>Carica papaya</i>	X	X	X	X		
Pear <i>Pyrus communis</i>	X		X			
Pecan <i>Carya illinoensis</i>	X		X			
Persimmon <i>Diospyros sp.</i>	X		X	X		
Pineapple <i>Ananas comosus</i>	X		X			
Pistachio <i>Pistacia vera</i>	X		X	X		
Plum <i>Prunus domestica</i> (European), <i>P. salicina</i> (Japanese)	X		X	X		
Pomegranate <i>Punica granatum</i>	X	X	X			
Raspberry <i>Rubus spp.</i>	X		X			
Shagbark Hickory <i>Carya ovata</i>	X		X	X		
Strawberry <i>Fragaria x ananassa</i>	X		X			

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Plant List for Identifying and Judging – Vegetables

Plant Name/Type	Foliage/ Plant	Flower	Fruit, Nut or Edible Portion	Seed or Pit	Seedpod or Cone	Storage Organ
Artichoke (Globe /Jerusalem) <i>Cynara scolymus, Helianthus tuberosus</i>	X	X	X	X		
Asparagus <i>Asparagus officinalis</i>	X		X	X		
Basil <i>Occimum basilicum</i>	X	X	X	X		
Bean <i>Phaseolus spp.</i>	X		X	X		
Beet <i>Beta vulgaris</i>	X		X	X		
Broccoli <i>Brassica oleracea</i>	X	X	X			
Brussels Sprouts <i>Brassica oleracea</i>	X		X			
Cabbage <i>Brassica oleracea</i>	X		X			
Carrot <i>Daucus carota var. sativus</i>	X	X	X	X		
Cauliflower <i>Brassica oleracea</i>	X		X			
Celery <i>Apium graveolens</i>	X		X	X		
Chives <i>Allium schoenoprasum</i>	X		X	X		
Corn <i>Zea mays</i>	X	X	X	X		
Cucumber <i>Cucumis sativus</i>	X		X	X		
Dill <i>Anethum graveolens</i>	X	X	X	X		
Edamame (edible soybean) <i>Glycine max</i>	X	X		X	X	
Eggplant <i>Solanum melongena var. esculentum</i>	X	X	X	X		
Garlic <i>Allium sativum</i>	X	X	X			
Horseradish <i>Armoracia rusticana</i>	X	X		X		X
Kale <i>Brassica oleracea</i>	X		X			
Kolhrabi <i>Brassica oleracea</i>	X		X			

Plant Name/Type	Foliage/ Plant	Flower	Fruit, Nut or Edible Portion	Seed or Pit	Seedpod or Cone	Storage Organ
Leek <i>Allium porrum</i>	X		X			
Lettuce <i>Lactua sativa</i>	X		X	X		
Muskmelon <i>Cucumis melo</i>	X		X	X		
Mustard <i>Brassica spp.</i>	X		X			
Okra <i>Hibiscus esculentus</i>	X	X	X	X		
Onion <i>Allium cepa</i>	X	X	X	X		
Parsley <i>Petroselinum crispum</i>	X		X	X		
Parsnip <i>Pastinaca sativa</i>	X		X	X		
Peas <i>Pisum sativum</i>	X		X	X		
Pepper <i>Capsicum annum</i>	X		X	X		
Potato (Irish) <i>Solanum tuberosum</i>	X	X	X			
Potato (Sweet) <i>Ipomoea batatas</i>	X	X	X			
Radish <i>Raphanus sativus</i>	X	X	X	X		
Rhubarb	X		X	X		
Rosemary <i>Rosmarinus officinalis</i>	X	X				
Sage <i>Salvia officinalis</i>	X		X			
Spinach <i>Spinacia oleracea</i>	X		X	X		
Squash <i>Cucurbita spp.</i>	X		X	X		
Swiss chard <i>Beta vulgaris</i>	X		X			
Thyme <i>Thymus sp.</i>	X	X				
Tomatillo <i>Physalis ixocarpa</i>	X	X	X	X		
Tomato <i>Lycopersicon esculentum</i>	X	X	X	X		
Turnip <i>Brassica rapa</i>	X		X			
Watermelon <i>Citrullus lanatus</i>	X		X	X		

## NJHA Horticulture Contest Identification Answer Sheet

Name \_\_\_\_\_ State \_\_\_\_\_ Contestant No. \_\_\_\_\_

A – Flowers & Indoor Plants		B- Landscape Ornamentals	
A1 African Violet	1. _____	B1 Arborvitae	1. _____
A2 Ageratum	2. _____	B2 Ash	2. _____
A3 Amaryllis	3. _____	B3 Azalea/Rhododendron	3. _____
A4 Bachelor Button	4. _____	B4 Basswood/Linden (Tilia sp.)	4. _____
A5 Begonia	5. _____	B5 Beech	5. _____
A6 Canna	6. _____	B6 Birch	6. _____
A7 Celosia	7. _____	B7 Boxwood	7. _____
A8 Chrysanthemum	8. _____	B8 Camellia	8. _____
A9 Coleus	9. _____	B9 Cedar (Cedrus sp.)	9. _____
A10 Columbine	10. _____	B10 Cottonwood/Poplar	10. _____
A11 Coral Bells ( <i>Heuchera</i> sp.)	11. _____	B11 Crapemyrtle (Lagerstroemia sp.)	11. _____
A12 Cosmos	12. _____	B12 Dogwood	12. _____
A13 Cranesbill ( <i>Geranium</i> sp.)	13. _____	B13 Elm	13. _____
A14 Crocus	14. _____	B14 English Ivy	14. _____
A15 Daffodil	15. _____	B15 Euonymus	15. _____
A16 Dahlia	16. _____	B16 Fir	16. _____
A17 Daylily	17. _____	B17 Forsythia	17. _____
A18 Dianthus sp.	18. _____	B18 Ginkgo	18. _____
A19 Dracaena	19. _____	B19 Hawthorn	19. _____
A20 Dumbcane/Diffenbachia	20. _____	B20 Hemlock	20. _____
A21 Ficus sp.	21. _____	B21 Hibiscus sp.	21. _____
A22 Geranium ( <i>Pelargonium</i> sp.)	22. _____	B22 Holly	22. _____
A23 Gladiolus	23. _____	B23 Honey Locust	23. _____
A24 Hollyhock	24. _____	B24 Hydrangea	24. _____
A25 Hosta	25. _____	B25 Juniper	25. _____
A26 Hyacinth		B26 Lilac	
A27 Impatiens ( <i>I. walleriana</i> , <i>I. hawkeri</i> )		B27 Magnolia	
A28 Iris		B28 Maple	
A29 Lily (Easter, Asiatic, Oriental)		B29 Nandina	
A30 Marigold		B30 Oak	
A31 Nasturtium		B31 Periwinkle ( <i>Vinca</i> sp.)	
A32 Pansy		B32 Photinia	
A33 Peony		B33 Pine	
A34 Peperomia		B34 Pittosporum	
A35 Petunia		B35 Planetree ( <i>Platanus</i> sp.)	
A36 Philodendron		B36 Potentilla	
A37 Purple Coneflower ( <i>Echinacea</i> sp.)		B37 Redbud ( <i>Cercis</i> sp.)	
A38 Rose		B38 Spirea	
A39 Salvia		B39 Spruce	
A40 Schefflera		B40 Sweetgum	
A41 Sedum sp.		B41 Viburnum	
A42 Snakeplant/Sansevieria		B42 Willow	
A43 Snapdragon		B43 Wisteria	
A44 Tulip		B44 Yew ( <i>Taxus</i> sp.)	
A45 Zinnia		B45 Yucca ( <i>Yucca</i> sp.)	
<b>Number of Flowers and Indoor Plants Correct</b>		<b>Number of Landscape Ornamentals Correct</b>	

## NJHA Horticulture Contest Identification Answer Sheet

Name \_\_\_\_\_ State \_\_\_\_\_ Contestant No. \_\_\_\_\_

C – Fruits, Nuts and Berries		D - Vegetables	
C1 Almond	1. _____	D1 Artichoke (Globe/Jerusalem)	1. _____
C2 Apple	2. _____	D2 Asparagus	2. _____
C3 Apricot	3. _____	D3 Basil	3. _____
C4 Avocado	4. _____	D4 Bean	4. _____
C5 Banana	5. _____	D5 Beet	5. _____
C6 Blackberry	6. _____	D6 Broccoli	6. _____
C7 Black Walnut	7. _____	D7 Brussels Sprouts	7. _____
C8 Blueberry (Vaccinium sp.)	8. _____	D8 Cabbage	8. _____
C9 Brazil Nut	9. _____	D9 Carrot	9. _____
C10 Butternut	10. _____	D10 Cauliflower	10. _____
C11 Cherry	11. _____	D11 Celery	11. _____
C12 Chestnut	12. _____	D12 Chives	12. _____
C13 Coconut	13. _____	D13 Corn	13. _____
C14 Coffee	14. _____	D14 Cucumber	14. _____
C15 Cranberry	15. _____	D15 Dill	15. _____
C16 Currant	16. _____	D16 Edamame (Edible Soybean)	16. _____
C17 Date	17. _____	D17 Eggplant	17. _____
C18 Elderberry	18. _____	D18 Garlic	18. _____
C19 English Walnut	19. _____	D19 Horseradish	19. _____
C20 Fig	20. _____	D20 Kale	20. _____
C21 Filbert	21. _____	D21 Kohlrabi	21. _____
C22 Gooseberry	22. _____	D22 Leek	22. _____
C23 Grape	23. _____	D23 Lettuce	23. _____
C24 Grapefruit	24. _____	D24 Muskmelon	24. _____
C25 Guava	25. _____	D25 Mustard	25. _____
C26 Kiwi		D26 Okra	
C27 Kumquat		D27 Onion	
C28 Lemon		D28 Parsley	
C29 Macadamia Nut		D29 Parsnip	
C30 Mango		D30 Peas	
C31 Mulberry		D31 Pepper	
C32 Nectarine/Peach		D32 Potato (Irish)	
C33 Olive		D33 Potato (Sweet)	
C34 Orange		D34 Radish	
C35 Papaya		D35 Rhubarb	
C36 Pear		D36 Rosemary	
C37 Pecan		D37 Sage	
C38 Persimmon		D38 Spinach	
C39 Pineapple		D39 Squash	
C40 Pistachio		D40 Swiss Chard	
C41 Plum		D41 Thyme	
C42 Pomegranate		D42 Tomatillo	
C43 Raspberry		D43 Tomato	
C44 Shagbark Hickory		D44 Turnip	
C45 Strawberry		D45 Watermelon	
<b>Number of Fruits, Nuts, Berries Correct</b>		<b>Number of Vegetables Correct</b>	

# NJHA Horticulture Contest Judging Answer Sheet

Contestant no.

	<u>(Best)</u> 1st	2nd	3rd	<u>(Least)</u> 4th
<u>Class 1</u>				
<u>Class 2</u>				

**FRUITS, NUTS & BERRIES:**

<u>Class 3</u>				
<u>Class 4</u>				

**FLOWERS AND INDOOR PLANTS:**

<u>Class 5</u>				
<u>Class 6</u>				

**LANDSCAPE ORNAMENTALS:**

<u>Class 7</u>				
<u>Class 8</u>				

Total score \_\_\_\_\_ / 80

# NJHA Horticulture Contest Information Answer Sheet

(Use pencil, circle best response) Contestant no. \_\_\_\_\_

1. A B C D	22. T F	43. T F	64. T F
2. T F	23. T F	44. T F	65. T F
3. T F	24. T F	45. T F	66. A B C D
4. T F	25. T F	46. A B C D	67. T F
5. T F	26. A B C D	47. T F	68. T F
6. A B C D	27. T F	48. T F	69. T F
7. T F	28. T F	49. T F	70. T F
8. T F	29. T F	50. T F	71. A B C D
9. T F	30. T F	51. A B C D	72. T F
10. T F	31. A B C D	52. T F	73. T F
11. A B C D	32. T F	53. T F	74. T F
12. T F	33. T F	54. T F	75. T F
13. T F	34. T F	55. T F	76. A B C D
14. T F	35. T F	56. A B C D	77. T F
15. T F	36. A B C D	57. T F	78. T F
16. A B C D	37. T F	58. T F	79. T F
17. T F	38. T F	59. T F	80. T F
18. T F	39. T F	60. T F	Total score _____ / 160
19. T F	40. T F	61. A B C D	
20. T F	41. A B C D	62. T F	
21. A B C D	42. T F	63. T F	