FLORICULTURE CDE QUESTION BANK

- Honeydew on the leaves and ants crawling around a plant indicate:

 A) Slugs
 B) Aphids
 C) Thrips
 D) Fungus

 Fertilization in a flower takes place when:

 A) Pollen grain touches the stigma
 B) Pollen grain touches the ovary
 C) Pollen is released from a flower
 D) A sperm and egg unite
- 3. Vase life is the length of time that:
 - A) A glass vase can be expected to go unbroken
 - B) A flower container remains in style
 - C) Cut flowers usually remain acceptable
 - D) A plastic vase will remain watertight
- 4. If a hue is diluted with gray, the resulting color is called:
 - A) Tone
 - B) Shade
 - C) Tint
 - D) Value
- 5. Which are NOT bedding plants?
 - A) Gloxinias
 - B) Zinnias
 - C) Marigolds
 - D) Pansies
- 6. The order of the elements in a 5-10-5 fertilizer analysis is:
 - A) NKP
 - B) NPK
 - C) KPN
 - D) PNK
- 7. If a flower arrangement appears to be ready to fall over, it lacks:
 - A) Balance
 - B) Focus
 - C) Rhythm
 - D) Harmony
- 8. A person is exposed to the highest concentration of a pesticide during:
 - A) Clean equipment
 - B) Reading directions
 - C) Mixing
 - D) Application

- 9. It is important not to keep fruit baskets in the same cooler with fresh flowers because:

 A) Fruit flies eat flower petals
 B) Banana and apples give off an odor that is absorbed by the flowers
 C) Ethylene gas from the fruit will cause the flowers to age quickly
 D) Florists shouldn't sell fruit that's the job of the grocery store

 10. The standard of a plant leaf.
 - 10. The stomata of a plant leaf:
 - A) Prevent disease organisms from entering the plant
 - B) Regulate nutrient entry from foliar fertilizer applications
 - C) Must open to allow light to reach the chlorophyll for photosynthesis
 - D) Regulate water vapor loss from the plant
 - 11. A method of applying pesticides to plants that can be effectively used in greenhouse but not outdoors is:
 - A) Spraying
 - B) Fumigation
 - C) Dusting
 - D) Soil drenching
 - 12. A flowering pot marketed throughout the year is:
 - A) Poinsettia
 - B) Easter Lily
 - C) Geranium
 - D) Chrysanthemum
 - 13. To check if a plant needs water, touch the soil with your finger: if the plant needs water the soil will feel:
 - A) Cool and moist
 - B) Dry and warm
 - C) Gritty
 - D) None of the above
 - 14. The treatment given Easter lilies to speed flowering is called:
 - A) Short days
 - B) Long days
 - C) Precooling
 - D) Drying off
 - 15. An explant is:
 - A) Plant produced from a tissue (meristem)
 - B) Plant produced from a leaf
 - C) Dead plant
 - D) Weed
 - 16. The word photoperiod has to do with light:
 - A) Quality
 - B) Duration
 - C) Intensity
 - D) Foot candles

- 17. A 50 degree F greenhouse crop means that to achieve good crop quality, the crop must be grown:
 - A) At a day temperature of 50 degrees
 - B) At a night temperature of 50 degrees
 - C) At a day and night temperature of 50 degrees
 - D) With a day/night temperature difference of 50 degrees
- 18. A pathogen is:
 - A) Nutritional disorder
 - B) Genetically inherited disorder
 - C) Special propagation technique
 - D) Microorganism that causes a disease
- 19. The greenhouse crop that is most responsive to increased levels of CO2 is:
 - A) Rose
 - B) Tomato
 - C) Cucumber
 - D) Geranium
- 20. When transplanting bedding plant seedlings: they should be handled by the:
 - A) Roots
 - B) Stems
 - C) Leaves
 - D) Cotyledons
- 21. An 8/10 azalea is a grade size that refers to:
 - A) The pot size
 - B) The root/shoot ratio
 - C) The date on which it was propagated
 - D) A range in inches of diameter of the top of the plant
- 22. The following florist crops are propagated by cuttings:
 - A) Hydrangea, Easter lily, rose, orchid
 - B) Snapdragons, stock, Boston yellow daisy, gardenia
 - C) African violet, cut leaf philodendron, English ivy, Sprengeri asparagus fern
 - D) Carnation, chrysanthemum, poinsettia, azalea
- 23. The following annual flowers are often grown as hanging basket plants:
 - A) Petunias, impatiens, fuschias, browallia
 - B) Marigold, zinnia, snapdragon, salvia
 - C) Creeping fig, asparagus fern, English ivy, kangaroo vine
 - D) Dwarf tomato, dwarf cucumber, parsley, strawberry
- 24. Green plants manufacture sugar in the presence of sunlight. This process is called:
 - A) Transpiration
 - B) Photosynthesis
 - C) Respiration
 - D) Krebs cycle

A) Intensity
B) Foot candles
C) Duration
D) Quality
26. Hydrangeas are forced for the following holidays:
A) Thanksgiving, Christmas, Valentine's Day
B) Memorial Day, July 4 th , Labor Day
C) Easter, Mother's Day, Memorial Day
D) Secretary's Day, Sweetest's Day, President's Day
27. The alstromeria is most closely related to the following plant:
A) Daffodil
B) Easter lily
C) Chrysanthemum
D) Abutilon
28. A flowering pot plant marketed throughout the year is:
A) Poinsettia
B) Easter lily
C) Geranium
D) Chrysanthemum
29. Propagation schedules for bedding plants, (anywhere in the US) are based on a sales period just after
A) Memorial Day
B) The last spring frost
C) The first fall frost
D) Labor Day
30. If pink rose flowers develop a distinctly bluish color, the probable cause is:
A) Age
B) Too much light
C) High soil pH
D) Low temperature
31. Systemic pesticides control the pest by:
A) The use of progressively stronger applications of the material
B) Dissolving into and being moved by the plant sap

25. The word photoperiod has to do with light:

C) Systematically killing younger to older pests

D) Preventing insects from molting

A) Red, yellow, and blueB) Orange green and violetC) Red, green and blueD) Blue, orange, and violet

32. The primary colors are:

33. A zinnia is an example of a flower having a texture A) Fine
B) Medium
C) Shiny
D) Coarse
 34. When ordering flowers from a wholesale florist, one should consider the following: A) Availability B) Keeping quality C) Price D) All of the above
35. The most commonly used material for holding flowers is:
A) Pin point holders
B) FrogsC) Chicken wire
D) Floral foam
36. Foliage below the water line should be removed to:
A) Prevent the leavers from decaying, which fouls the waterB) Prevent photosynthesis
C) Prevent leaves from using stored food in the stem
D) All of the above
37. Flowers such as roses and carnations should be stored at: A) 45-50 degrees F
B) 36-40 degrees F
C) 30-35 degrees F
D) 55-60 degrees F
38. All of the following are cut flowers except:
A) GladiolusB) Daisies
C) Stock
D) Snapdragons
-) 2
39. The size of the bow for a corsage should be:
A) Four inches
B) As wide as the corsage is long
C) ½ the length of the corsageD) slightly wider than the petals of the corsage
D) slightly wider than the petats of the corsage
40. Which has the poorest keeping quality and does not last as long as the others?
A) Huckleberry
B) Baker fern

C) SalalD) English ivy

42. Florist azaleas are:
A) Herbaceous perennials
B) Bulbs
C) Small evergreen shrubs
D) Annuals
43. Which of the following is provided for a plant by its leaves?
A) Anchorage
B) A food factory
C) Shade
D) Support
44. The most important cut flower crops in the US are:
A) Gladiolus, orchids, gardenia
B) Mum, rose, carnation
C) Rose, snapdragon, gladiolus
D) Carnation, rose, orchid
45. The are within a composition occupied by material is called
A) Positive space
B) Negative space
C) Texture
D) Line
46. Systemic pesticides control the pest by:
A) The use of progressively stronger applications of the material
B) Dissolving into and being moved by the plant sap
C) Systematically killer younger to older pests
D) Preventing insects from molting
47. The flowers of Easter lilies last longer if:
A) The pistil is removed
B) The stamens are removed
C) The plant is kept in a warm place
D) It is sold only after the first flower has opened
48. The larger the gauge of florist wire indicates that the thickness is:
A) Shorter
B) Longer
C) Thicker

41. A pathogen is:A) Genetically inherited disorderB) Special propagation techniqueC) Nutritional disorder

D) Micro organism that causes a disease

49. Deluxe floral foam is used to:
A) Hold soft stemmed flowers
B) Absorb water quickly
C) Act as a preservative
D) Hold heavy stemmed flowers
50. The number of flowers usually in a cymbidium orchid corsage is:
A) Two
B) Three
C) Four
D) One
51. Ridge and furrow greenhouses at all latitudes should be oriented:
A) North to South
B) East to WestC) To the builders convenience
c) To the builders convenience
52. A powerful and specific inhibitor of ethylene action which delays flower senescence is:
A) Carbon dioxide gas
B) Phosphorus
C) Sulfur
D) <u>Silver</u>
53. The most important environmental factor in orchid culture is:
A) Fertilization B) Temperature
B) TemperatureC) Watering and water quality
D) Light
D) Light
54. The acceleration of flowering by manipulation of environmental conditions is known as:
A) Pulsing
B) Forcing
C) Leaching
D) After-ripening
55. Mass marketing is the sale of floral products:
A) In the supermarkets
B) In high-traffic locations
C) In large discount stores
D) All of the above
56. Optimum temperatures for poinsettia growth is:
A) 70-90 degres
B) <u>60-80 degrees</u>
C) 50-60 degrees

D) Thinner

D) 45-55 degrees
 57. Costs associated with making an arrangement, decorating a blooming plant or creating wedding flowers are called: A) <u>Direct costs</u> B) Indirect costs C) Fixed costs D) Overhead
58. Pot mums in 6" pots should average flowering shoots per pot. A) 5-10 B) 20-30 C) 60-80 D) 80-100
 59. Floral preservatives function to: A) Provide sugar B) Supply a bactericide C) Acidify the solution D) All of the above
 60. A grouping of closely spaced flowers, net and accessories in a hand-held floral arrangement is called: A) Pompon B) Corsage C) Hogarthian curve D) Nosegay
61. The optimum pH for azaleas is: 62. 6.5-7.5

67. This fungus attacks a wide variety of ornamental plants, probably causing more losses than any other

68. A good substitute for sand, this material provides aeration in the root media.

63. 9.0-10.0 **64.** <u>4.5-5.5</u> 65. 7.0-8.0

A) <u>Corms</u>B) CuttingsC) CrownsD) Bulbs

single pathogen.

A) Pythium root rotB) Botrytis cinerea

C) AlternariaD) Phytophthora

A) Peat mossB) PerliteC) VermiculiteD) Rock wool

66. Field production of gladiolus is accomplished by using:

69	 Distorted flowers characterized by shorter petals, which give the rose a flattened appearance are called: A) Flagged B) <u>Bullheads</u>
	C) Blind shoots D) Deadheads
70	 Most epiphytic orchids can be grown in: A) Tree fern-redwood chips B) Osmunda fiber C) Fir bark D) All of the above
71	 Specialty cut flowers may be defined as: A) Cut flowers other than carnations, chrysanthemums and gladiolus B) Cut flowers other than roses C) <u>Cut flowers other than roses, carnations and chrysanthemums</u> D) Cut flowers other than those grown in the field.
72	 To obtain blue flowers on hydrangeas, the pH of the growth media should be: A) 5.0-5.5 B) 6.0-6.5 C) 7.0-7.5 D) 4.0-4.5
73	 The showy red, pink or white portion of the poinsettia are: A) Flowers B) Bracts C) Petals D) Sepals
74	 The growth regulator often used to control marketable plant heights of potted tulips, dahlias and lilies is: A) Bonzi B) <u>A-Rest</u> C) Benlate D) Florel
75	 All of the following are bulbous and tuberous-rooted plants except: A) Dahlias B) Dutch iris C) Caladiums D) Snapdragons
76	 The majority of florist businesses are conducted in one location and annual gross sales are generally under: A) \$2,500,000 B) \$250,000 C) \$25,000 D) \$2500

77. The unit of heat measurement used in the greenhouse industry is the:

- A) Btu B) CCM C) Ekg D) Ocm
- 78. There are three primary ways that heat is lost in a greenhouse. Which of the following is not correct?
 - A) Air leakage
 - B) Solarization
 - C) Conduction
 - D) Radiation
- 79. There are three basic types of pots that are commonly used in the green house industry. Which of the following is not one of the basic types?
 - A) Designer pot
 - B) Standard pot
 - C) Azalea pot
 - D) Bulb pot or pan
- 80. The most commonly used growth retardant is called:
 - A) Cycocel
 - B) Diazanon
 - C) Retoid
 - D) Slow Grow
- 81. Flowers, which are worn by men and pinned on a lapel are called:
 - A) Falcon corsage
 - B) Hand-tied bouquiet
 - C) Boutonnieres
 - D) Pot pourri corsage
- 82. A component of greenhouse root media consisting of siliceous volcanic rock, crushed and heated to 1800 degree F is:
 - A) Vermiculite
 - B) Rockwood
 - C) Calcined
 - D) Perlite
- 83. This growth regulator increases the flower size of geranium and accelerates flowerering in cyclamen:
 - A) Auxin
 - B) Gibberellic acid
 - C) B-Nine
 - D) Ethephon
- 84. A more expensive decorative container into which a potted plant can be set is a:
 - A) Jardinière
 - B) Quick sleeve
 - C) Vase
 - D) Rose bowl
- 85. Analogous color harmony utilizes:
 - A) A combination of the primary and secondary colors

- B) Two colors directly opposite each on the color wheel
- C) Tints, shades and tones of one hue
- D) Two or three adjacent colors on the color wheel
- 86. The genus and species name for the carnation is:
 - A) Dianthus caryophyllus
 - B) Lathyrus odoratus
 - C) Anemone coronaria
 - D) Lobularia maritime
- 87. When doing the flowers for a wedding you may work with all but one of the following arrangements: Which arrangement would not be suitable for a wedding?
 - A) Cascade bouquet arrangement
 - B) Kneeling bench arrangement
 - C) Two-tiered guest table arrangement
 - D) Full couch spray arrangement
- 88. Certain plants are quite suitable for use in terrariums. Which, if any, of the following are suitable for this use:
 - A) Creeping fig
 - B) Needlepoint ivy
 - C) None of the above
 - D) All of the above
- 89. Cycocel or chlormequat, is a commonly used:
 - A) Height enhancer
 - B) Height retardant
 - C) Pinching agent
 - D) Growth promoter
- 90. These summer-blooming perennials produce dense, bristly balls of blue color:
 - A) Delphinium
 - B) Blue plumbago
 - C) Bleeding heart
 - D) Globe thistle
- 91. When growing orchids, a hygrometer is used to measure:
 - A) Temperature
 - B) Light
 - C) Air flow
 - D) **Humidity**
- 92. The most popular orchid potting material is:
 - A) Osmunda fiber
 - B) Firbark
 - C) Tree fern fiber
 - D) Lava rock
- 93. Excessively short stems in tulips planted outdoors are due to:
 - A) Lack of sunlight
 - B) Warm spring temperatures and lack of winter cooling

- C) Excessive moisture
- D) Magnesium and calcium deficiencies
- 94. There are numerous advantages to having a container garden. Which of the following, if any, are such advantages:
 - A) Containers are mobile
 - B) Plants can be spotlighted via their placement
 - C) You can enjoy plants where a dirt garden is impossible
 - D) All of the above
- 95. A physiological disorder of geraniums caused by high moisture levels in the root media is:
 - A) Bacterial blight
 - B) Botrytis blight
 - C) Oedema
 - D) Pythium
- 96. Upper leaves which show interveinal chlorosis probably suffer from:
 - A) Lack of water
 - B) A sulfur deficiency
 - C) An iron deficiency
 - D) A nitrogen deficiency
- 97. Marigold seed which fails to emerge, or seedlings which die soon after emerging: from wet soil are the result of:
 - A) Damping off
 - B) Cutworm
 - C) Whitefly damage
 - D) Foliar nematodes
- 98. The flowers and leaves of a rose are mottled and streaked with silver, and dusty black droppings have collected. This damage is indicative of:
 - A) Fungus gnats
 - B) Thrips
 - C) Powdery mildew
 - D) Scale
- 99. African violets are typically propagated by:
 - A) Leaf cuttings
 - B) Stem cuttings
 - C) Air layering
 - D) Root division
- 100. The most popular mechanics item used to support floral arrangements is:
 - A) Waterproof tape
 - B) Floral foam
 - C) Plastic grid
 - D) Metal pinpoints
- 101. The pricing method based on 40% of retail selling price is:
 - A) Ratio markup
 - B) Wholesale pricing

	C) Retail cost of goodsD) Nesting pricing
102.	Cut branches of evergreen 20-30 inches long are called: A) Tips B) Bales C) Boughs D) Bunches
103.	A device used to measure air pressure between two plastic layers in a greenhouse is called a: A) Hygrometer B) Tensionmeter C) Manometer D) Barometer
104.	The term "texture", as it applies to plants, includes such adjectives as: A) Fine, medium and bold B) Smooth, fuzzy and spiny C) Corymb, umbel and panicle D) Entire, serrate, and lobed
105.	A garden that uses a complementary color scheme is one that: A) Uses flowers in various tints and shades of one color B) Uses colors closely related to one another on the color wheel C) Uses colors that are opposite to one another on the color wheel D) Combines all colors
106.	Cool colors include color combinations like: A) Red, red-orange, orange, yellow-orange, yellow B) Blue-green, blue, blue-violet and violet C) Black, white and green D) Yellow, pink and red
107.	The kind of garden that shows the least design is: A) beds B) borders C) cottage gardens D) formal gardens
108.	The type of plant that lives for more than two years is: A) Annuals B) Biennials C) Perennials D) Cuttings
109.	The best way to design a border is to:

B) Plant the tallest plants in the middle and gradually plant shorter plants toward the edges

A) Mix all plant heights evenly in the border

- C) Plant the tallest plants in front, medium height plants in the middle and shortest plants in the back
- D) Plant the shortest plants in front, medium height plants in the middle and tallest plants in the back
- 110. When planning on which plants to plant in your garden, you need to know which climatic zones a plant will grow in. Which climatic zones is the Houston, TX area in?
 - A) 4 and 5
 - B) 6 and 7
 - C) 8 and 9
 - D) 10 and 11
- 111. The reason for putting irregularly shaped stones, or broken pieces of pottery into the bottom of a pot containing flowering plants is:
 - A) They let air into the pot from the bottom
 - B) They allow the roots to grow out of the bottom of the pot
 - C) It helps the soil to drain after being watered
 - D) Its just an old tradition passed down from person to person and des not help the plants
- 112. The best kind of soil to plant flowers in is:
 - A) Sand
 - B) Silt
 - C) Clay
 - D) Loam
- 113. What is the purpose of 'pinching' plants?
 - A) Pinching is the removal of dead flowers
 - B) Pinching helps the plant to become more bushy
 - C) Pinching helps the plant by requiring less fertilizer
 - D) Pinching is the removal of large insects, such as beetles
- 114. This element is essential for strong stems, strong roots, and deep flower color. A deficiency in plants shows up as weak stems, and a yellowing and browning of leaves at their tips and edges.
 - A) Nitrogen
 - B) Iron
 - C) Phosphorus
 - D) Potassium
- 115. The best time to water flowering plants is:
 - A) In the morning
 - B) In the middle of the day
 - C) In the evening
 - D) At night
- 116. A soil that drains too fast or too slow can best be improved by:
 - A) Adding organic matter, such as manure, leaf mold or peat moss
 - B) Adding sand
 - C) Adding gypsum
 - D) Nothing can fix this kind of soil
- 117. Most perennial plants grow best in:

	C)	Alkaline soils Rocky soils Neutral or slightly acid soils
118.	A) B) C)	If seeds are sown out-doors, when is the best time to thin plants? When they are fully grown When they have three sets of leaves When they have 2 sets of leaves When they have a single set of leaves
119.	B) C)	Which of the following combinations are shade-tolerant perennials? Coreopsis, baptisia, oriental poppy, rudbeckia Hosta, lobelia, columbine, bleeding heart Daylily, yucca, peony, gaillardia Iris, veronica, violet, salvia
120.	B) C)	How many essential nutrients are essential to plant growth and reproduction? Three Four Six Sixteen
121.	B) C)	When it is about three inches tall in the spring When it is not blooming during the summer After blooming in the fall When it is dormant in the winter
122.	B) C)	If your soil is too acid, you can correct it by: Adding garden sulfur Adding ground limestone Ammonium sulfate Ferrous sulfate
123.	B) C)	Most bulbs are planted in the: Spring Summer Fall Winter
124.	B) C)	Which of the following are groups of biennial plants? Coreopsis, English daisy, honesty (silver dollar plant) Sweet William, hollyhocks, foxglove Forget-me-not, Canterbury-bells, viola Veronica, wallflowers, pansies
125. in	A)	When seedlings grown indoors are moved outdoors, they must be to be able to survive new environment. Pinched Deadheaded

A) Very acid soils

- C) TransplantedD) Hardened offWhich group
- 126. Which group of flowering plants benefits from being divided every few years?
 - A) Perennials
 - B) Annuals
 - C) Biennials
 - D) Vines
- 127. Which group of plants are summer to fall flowering?
 - A) Yarrow, yucca, coreopsis, gaillardia
 - B) Oriental poppy, rudbeckia, salvia, candytuft
 - C) Physostegia, peonies, iris, columbine
 - D) Daylilies, bleeding heart, ranunculus, butterfly weed
- 128. When planting bare-root roses, do not:
 - A) Prune canes back by about a third of their original length
 - B) Soak the rose in a bucket of water before planting
 - C) Prune the roots
 - D) Make a mound to spread the roots upon
- 129. Which of the following are summer blooming plants?
 - A) Fritillaria, calla lilies, grape hyacinths
 - B) Gladiolus, anemones, Siberian squill
 - C) Tulips, daffodils, crocus
 - D) Montbrecia, agapanthus, gloriosa lilies
- 130. Some flowering plants, known as everlastings, have flowers suitable for drying. They include:
 - A) Zinnias, celosia, dahlias
 - B) Statice, petunias, ammobium
 - C) Strawflwers, globe amaranth, bells of Ireland
 - D) Yarrow, phlox, marigolds
- 131. When cutting roses to use indoors or to remove spent blossoms:
 - A) Make the cut above the first strong, three-leaflet leaf
 - B) Do not leave at least two good leaves of the stem
 - C) Cut directly below the first strong, three-leaflet leaf
 - D) Cut directly below the first strong, five-leaflet leaf
- 132. A cutting garden is a plot of land set aside fro the purpose of growing flowers for what use?
 - A) Outdoor bouquets only
 - B) Commercial florist
 - C) Supermarket florist
 - D) Indoor bouquets only
- 133. A correct way to remove mealy bugs from plants is:
 - A) Dab each bug with a cotton swab dipping in rubbing alcohol
 - B) Use a pesticide
 - C) Use a fungicide
 - D) Rinse the leaves with milk

134.	ler:	Fertilizer that you add to your flowering plants contain the following elements in the correct
	A)	Potassium, nitrogen, iron
		Nitrogen, phosphorus, potassium
		Nitrogen, phosphorus, iron
	D)	Nitrogen, potassium, phosphorus
135.		Although technically not insects, these tiny pests can work havoc on flowering plants:
	A)	Thrips
	B)	Aphids
	C)	Red spider mites
	D)	Leaf cutting beetle
136.	A >	What type of water supply do cut flowers need to transport food and to keep the stems stiff?
		Constant water supply
		Occasional water supply
		Periodic water supply
	D)	Cold water supply
137. Wł	nat s	Heavy-headed flowers, such as large mums, often bend by the flower head, nearly breaking off. hould be done to temporarily improve this situation?
		Use hot glue gun to glue flower head on
		Use string to tie flower head on
		Use wire to tie flower head on
	D)	Insert tooth picks pointed through the bloom into the stem
138.		Which of the following is not a purpose of mulch?
		Mulch keeps the ground cool
		Mulch limits the growth of weeds
		Mulch conserves moisture
	D)	None of the above
139. sha	ıllov	Most lilies are planted 6-8" below the soil surface. Which type needs to be planted more vly?
		Tiger lilies
	B)	Madonna lilies
	C)	Oriental lilies
	D)	Trumpet lilies
140.		A has a flower bud within it surrounded by layers of food supply.
	,	Corm
		Rhizome
		True bulb
	D)	Tuber
141.		Which of the following annuals can be propagated by cuttings?
	,	Petunias
		Wax begonias
		Larkspur
	D)	Cosmos

142.	B) C)	Plants need which part of the visible spectrum for good foliage development? All of the visible spectrum Red Green Blue
143. blo	A) B) C)	Round nodules or long, irregular highly branched swellings on roots are caused by and the flow of water and nutrients. Nematodes White grubs Root gall Wireworms
144. is o	A) B) C)	Abnormally streaked or striped flower petals are a symptom of 'flower breaking'. This problem mon tulips, lilies and gladiolus and is caused by: Fungi Thrips Viruses Aphids
145.	B) C)	What is the most important thing to do for bulbs to produce flowers during succeeding years? Use a fertilizer high in iron Use a fertilizer high in phosphorus Use a fertilizer high in nitrogen Grow a good crop of foliage
146.	B) C)	Which type of rose has multiple large flowers on a single stem? Polyanthas Floribundas Grandifloras Hybrid teas
147.	B) C)	What is a good method to naturalize bulbs in the lawn? Line them up in rows Throw them in the air and plant where they fall Plant them on a checkerboard pattern Bulbs cannot be naturalized in the lawn
148. chi	A) B)	The removal of all side buds to produce a single large bloom on plants such as roses, dahlias, and nthemums is called: Deadheading Pinching Dividing
149.	B) C)	What is a good sign that potted plants need to be repotted? New leaves are quite a bit smaller than older ones New leaves are quite a bit larger than older ones Leaves are turning yellow The plant is becoming tall and lanky

150.	Flowers and foliage can be attacked by these insects and cause colorless streaks and withered
flow	ers.
A	A) Aphids
Е	3) Red spider mites
	C) Coddling moths
Γ	D) Thrips
151.	Perennials cannot be propagated from:
A	A) Seeds
Е	3) Root cuttings
	C) Stem cuttings
Ι	O) None of the above

- 152. Most indoor foliage plants need which kind of lighting?
 - A) Direct sunlight
 - B) Bright light
 - C) Bright indirect light
 - D) Medium light
- 153. Most bulbs are best planted:
 - A) In areas with afternoon sun
 - B) In areas with constant sunlight
 - C) In the heavy shade of buildings, trees and shrubs
 - D) In very moist soil
- 154. In order to survive in the florist business, an owner/manager must be able to figure out the true value of the product and strive for improvement of the perceived value. This is the essence of:
 - A) Discount pricing
 - B) Retail pricing
 - C) Premium pricing
 - D) Profit Pricing
- 155. Choosing the right heating system for a particular greenhouse depends on all but one of the following variables. Identify the one that is not applicable:
 - A) Climate
 - B) Type of containers
 - C) Size of greenhouse
 - D) Cost and availability of heating fuel
- 156. A physiological disorder of geraniums caused by high moisture levels in the root media is:
 - A) Bacterial blight
 - B) Botrytis blight
 - C) Oedema
 - D) Pythium
- 157. The unit of heat measurement used in the greenhouse industry is the :
 - A. Btu
 - B. CCM
 - C. Ekg

D. Ocm

- 158. The principle of total compatibility of all parts of an arrangement with each other is termed:
 - A) Rhythm
 - B) Texture
 - C) Harmony
 - D) Proportion
- 159. There are three primary ways to heat is lost in a greenhouse. Which of the following is not correct?
 - A) Air leakage
 - **B)** Solarization
 - C) Conduction
 - D) Raidiation
- 160. Upper leaves which show interveinal chlorosis probably suffer from:
 - A) lack of water
 - B) a sulfur deficiency
 - C) a iron deficiency
 - D) a nitrogen deficiency
- 161. There are three basic types of pot that are commonly used in the greenhouse industry
- 162. Which of the following is not one of the basic types?
 - A) Designer Pot
 - B) Standard Pot
 - C) Azalea Pot
 - D) Bulb pot or pan
- 163. There is an abbreviation for the mathematical difference between the day temperature and the night temperature. Identify that abbreviation:
 - A) a)DTNT
 - B) b)DT/NT
 - C) c)AM-PM
 - D) d)DIF
- 164. A process used by growers to produce well-branched, compact plants with many flowers is called:
 - A) A.Stunting
 - B) B) Compacting
 - C) C) Pinching
 - D) D) Potting
- 165. The most commonly used growth retardant is called:
 - A) CyCocel
 - B) Diazanon
 - B) Retoid
 - C) Slow Grow

167.	Cut carnations are classified into two groups:
	A. floral and greenhouse
\boldsymbol{B})	standards and miniatures
C)	premium and discount
D)	none of the above
168.	Rooted cuttings of carnations are planted very shallow and are irrigated by ooze tubes or a
	r system. The primary reason for this type of watering is to:
	a. control costs
B)	not wet the foliage
	allow the injection of iron
	save time and equipment
	• •
169.	Florywing agalogs are:
	Flowering azaleas are: Bulbs
,	Annuals
	Small evergreen shrubs
	Herbaceous perennials
D)	Herbaceous perenniais
170.	Carbon dioxide enrichment in greenhouses is used to:
	i. Decrease pant water uptake
	B. Combat insects
	C. <u>Increase production</u>
	D. Maintain a healthier work environment
171.	Food is tanslocated implants through a tissue called the:
	A. Phloem
	B. Xylem
	C. Cambium
	D. Cortex
170	Develor leaf valueties leak of annular since and florel nexts in multiples of themse are
172.	Parallel leaf veination, lack of annular rings, and floral parts in multiples of theree, are gusishing characteristics of:
uisuiig	
	A. Gymnosperms B. Pteridophytes
	± · •
	C. Monocots D. Dicots
	D. Dicots
173.	Pollination occurs when:
	A. A pollen grain adheres to the stigma
	B. Pollen is released from the flower
	C. A sperm and egg unite

D. A pollen grain touches the ovary

Flowers that are worn by men and pinned on a label are called:

A. Falcon Corsage

B) Hand-tied bouquets *C*) *C. Boutonnieres*

	A. Foliage plant
	B. Succulent plantC. An annual
	D. Bulbous plant
175. papery	A bulbous plant in which the main storage organ is an enlarged stem that is enclosed by dry, y leaf bases, is called a:
	A. Bulb B. Rhizome
	C. <u>Corm</u>
	D. Stolon
176.	Soil is most effectively steamed with aerated steam having a temperature range of: A. 60-76°C
	B. 51-67°C
	C. 66-82°C
	D. 82-100°C
177.	An Azalea that has yellowish new leaves is probably lacking:
	A. Copper B. Boron
	C. Iron
	D. Zinc
178.	A poinsettia crop that is four weeks late in flowering for Christmas was very likely exposed to:
	A. A gas leakB. An herbicide
	C. Too much CO ₂
	D. <u>Lighting at night</u>
179.	You would use a Sol U-Bridge to:
177.	A. Determine soil pH
	B. Inject fertilizer into a watering system
	C. Test for salt content in a medium
	D. Determine soil water content
180.	Excessive vegetative growth is likely to occur in geraniums:
	A. If the pH is too high B. Under strong sunlight
	C. If the nitrogen level is too high
	D. Under low temperature conditions
181.	Damping-off disease of seedlings is caused by:
	A. Bacteria
	B. Virus
	C. <u>Fungus</u> D. Fertilizer

174.

The Alstromeria is a:

	A. TranslocationB. AssimilationC. <u>Photosynthesis</u>D. Respiration
184.	 A 'stretched' plant is one that: A. Has taken too long to reach marketable size B. Produces flowers beyone its natural flowering time C. Is a vine D. <u>Has grown excessively long stems</u>
185.	Chrysanthemums and poinsettias are grown commercially under long nights. This is needed to: A. Promote seedling growth B. Enhance leaf size and quality C. <u>Initiate and develop flower bulbs</u> D. Produce larger, taller plants
186.	The length of time from cutting propagation to flowering of African violets is about: A. Two months B. Nine months C. Four months D. Six months
187.	Greenhouse tomato flowers are pollinated: A. By use of a vibrating machine that shakes the pollen loose B. By opening the vents in the greenhouse to let honey bees in C. By placing a large fan right over the crop to throw the pollen all over D. By themselves because tomatoes are dioecious plants
188.	The timing of an Easter Lily crop is complicated because: A. The earlier the date of Easter, the longer it takes to force them B. The size of the rooted cuttings determines the date of flowering C. The seeds germinate irregularly over a long period of time D. The later the date of Easter, the longer it takes to force them
189. temp	For good germination, seeds of nearly all bedding plants require a propagation medium perature of:
190.	A. 45-55°F b. 55-65°F c.65-75°F d <u>75-85°F</u> Certain plants produce full size fruit that contains no seeds (examples are cucumbers, tomatoes, ermelon and grapefruit). The term that refers to such fruit is:

The greenhouse crop that is most responsive to increased levels of CO2 is:

Food is manufactured in the leaves of plants when they are exposed to light. This process is

182.

183.

called:

A. RoseB. <u>Cucumber</u>C. TomatoD. Geranium

	A. GynoeciusB. GynospermaticC. <u>Parthenocarpic</u>D. Angiospermatic
191.	Most greenhouse crops stop growing when the air temperature goes above: A. 95oF B. 85oF C. 90oF D. 80oF
192.	Soil structure refers to: A. The components of the soil B. The arrangement of soil particles C. Both a and b above D. The size of the soil particles
193.	When new plants are produced by means of a few layers of cells removed from a stem top or cot, this is referred to as: A. Apicial meristem propagation B. Stem tip cutting propagation C. Single eye cutting propagation D. Apomixes
194. n	With the exception of the horizontal design, how high in relation to its width should a design be nade? A. 2-1/2 to 3 times the width B. 2 to 2-1/2 times the width C. 1-1/2 to 2 times the width D. 1 to 1-1/2 times the width
195.	Focus in floral design refers to: A. Attraction of the observers eye to a central point B. A transition from dark to central point C. Attraction of the observers eyes to the outline form of the arrangement D. A gradation of sizes of flowers
196.	Cut flowers and 'greens' are held in refrigerators at a temperature range of: A. 40-45°F b. 35-40°F c. 30-32°F d. 45-50°F
197.	A floral arrangement should be finished on all sides if it is to be placed: A. On a mantle B. On a bookcase C. Against a wall D. In front of a mirror
198.	When designing a floral arrangement, after the container has been prepared, one should: A. Establish the focal point

B. Begin filling inC. Drain out all the water

	D. Establish the lines
199.	If a hue is diluted with gray, the resulting color is called a: A. Tone B. Shade C. Tint D. Value
200.	The size and arrangement of a greenhouse range is determined by the: A. Requirements of the crops to be grown B. Number of buildings to be built C. Size of individual greenhouses D. Type of construction used
201.	 A 'starter solution' for greenhouse tomatoes should be high in: A. Nitrogen B. Potassium C. <u>Phosphorus</u> D. Copper
202.	The following is an analysis for a complete fertilizer for commercial use: A. 2-1-1 B. 5-10-5 C. 0-45-0 D. 0-20-10
203.	The most commonly used heating system for commercial greenhouses is: A. Electric heat panels B. Steam or hot water piping C. Forced hot air D. Passive solar
204.	A 100 pound bag of 6-24-12 fertilizer contains pounds of potash. A. 6 B. 12 C. 48 D. 24
205.	The best growth of most kinds of potted plants is obtained when fertilizer is applied as: A. A soluble form applied every two weeks B. A slow release form in the soil mix C. Constant feed D. <u>B and C combined</u>
206.	A chemical disinfectant used to clean benches, pots and watering devices is: A. <u>Clorox</u> B. Malathion C. Off-Shoot-O D. None of the above

From the safety standpoint, it is best to fumigate a greenhouse:

- A. In early morning
- B. Around noon
- C. Right after quitting time
- D. At midnight
- 208. Use of the following materials is regulated by both Federal and state laws:
 - A. Insecticides, fungicides
 - B. Insecticides, fungicides, miticides
 - C. Insecticides, fungicides, miticides, herbicides
 - D. <u>Insecticides</u>, fungicides, miticides, herbicides, plant growth regulators
- 209. L D 50 means:
 - A. Lethal dose of 50%
 - B. Legal dose of 50%
 - C. 50 lazy daisy plants
 - D. legally drunk at 50
- 210. Early warning signs of poisoning of humans by a pesticide may include:
 - A. <u>Tightness in chest, narrowing pupils, headache</u>
 - B. Numbness in hands and feet
 - C. Turning purple
 - D. Loss of memory
- 211. An air circulation system in a greenhouse is operated continuously except:
 - A. At nighttime hours
 - B. On windy days
 - C. When fan and pad cooling is in use
 - D. When the heating system is on 'full'
- 212. The ventilators in a greenhouse range should be realigned in:
 - A. Early fall, every other year
 - B. Late spring, annually
 - C. mid summer and mid winter annually
 - D. mid summer every five year
- 213. Employees are paid for only two things:
 - A. Being on time and putting in time
 - B. Cheerfulness and productivity
 - C. Resourcefulness and ingenuity
 - D. Productivity and responsibility
- 214. If you have a work related problem that you do not know how to solve, you should take it to your supervisor:
 - A. To complain about it
 - B. For him/her to solve
 - C. With alternative solutions
 - D. After you have tried a solution
- 215. If a customer you are serving has a complaint, the first thing that you should do is:

- A. Listen very carefully
- B. Refer it to your supervisor
- C. Write down his/her name and address
- D. Ask the customer to wait while you check on what to do
- 216. Gladioli are:
 - A. Seldom used by florists
 - B. Used a 'line' flowers in a floral design
 - C. Come in only two colors
 - D. Poor keepers
- 217. Overhead costs include everything not accounted for in:
 - A. Taxes
 - B. Rebates
 - C. Indirect costs
 - D. Direct costs
- 218. A florist is most likely to be promptly paid when charged account bills are mailed:
 - A. Monthly
 - B. Bi-weekly
 - C. Weekly
 - D. The day after purchase
- 219. The term "texture", as it applies to plants, includes such adjectives as:
 - A) Fine, medium and bold
 - B) Smooth, fuzzy and spiny
 - C) Corymb, umbel and panicle
 - D) Entire, serrate, and lobed
- 220. A garden that uses a complementary color scheme is one that:
 - A) Uses flowers in various tints and shades of one color
 - B) Uses colors closely related to one another on the color wheel
 - C) Uses colors that are opposite to one another on the color wheel
 - D) Combines all colors
- 221. Cool colors include color combinations like:
 - A) Red, red-orange, orange, yellow-orange, yellow
 - B) Blue-green, blue, blue-violet and violet
 - C) Black, white and green
 - D) Yellow, pink and red
- 222. The kind of garden that shows the least design is:
 - A) beds
 - B) borders
 - C) cottage gardens
 - D) formal gardens
- 223. The type of plant that lives for more than two years is:
 - A) Annuals
 - B) Biennials
 - C) Perennials

- D) Cuttings
- 224. The best way to design a border is to:
 - A) Mix all plant heights evenly in the border
 - B) Plant the tallest plants in the middle and gradually plant shorter plants toward the edges
 - C) Plant the tallest plants in front, medium height plants in the middle and shortest plants in the back
 - D) Plant the shortest plants in front, medium height plants in the middle and tallest plants in the back
- When planning on which plants to plant in your garden, you need to know which climatic zones a plant will grow in. Which climatic zones is the Houston, TX area in?
 - A) 4 and 5
 - B) 6 and 7
 - C) 8 and 9
 - D) 10 and 11
- 226. The reason for putting irregularly shaped stones, or broken pieces of pottery into the bottom of a pot containing flowering plants is:
 - A) They let air into the pot from the bottom
 - B) They allow the roots to grow out of the bottom of the pot
 - C) It helps the soil to drain after being watered
 - D) Its just an old tradition passed down from person to person and des not help the plants
- 227. The best kind of soil to plant flowers in is:
 - A) Sand
 - B) Silt
 - C) Clay
 - D) Loam
- 228. What is the purpose of 'pinching' plants?
 - A) Pinching is the removal of dead flowers
 - B) Pinching helps the plant to become more bushy
 - C) Pinching helps the plant by requiring less fertilizer
 - D) Pinching is the removal of large insects, such as beetles
- 229. This element is essential for strong stems, strong roots, and deep flower color. A deficiency in plants shows up as weak stems, and a yellowing and browning of leaves at their tips and edges.
 - A) Nitrogen
 - B) Iron
 - C) Phosphorus
 - D) Potassium
- 230. The best time to water flowering plants is:
 - A) In the morning
 - B) In the middle of the day
 - C) In the evening
 - D) At night
- 231. A soil that drains too fast or too slow can best be improved by:
 - A) Adding organic matter, such as manure, leaf mold or peat moss

- B) Adding sand C) Adding gypsum D) Nothing can fix this kind of soil
- 232. Most perennial plants grow best in:
 - A) Very acid soils
 - B) Alkaline soils
 - C) Rocky soils
 - D) Neutral or slightly acid soils
- 233. If seeds are sown out-doors, when is the best time to thin plants?
 - A) When they are fully grown
 - B) When they have three sets of leaves
 - C) When they have 2 sets of leaves
 - D) When they have a single set of leaves
- 234. Which of the following combinations are shade-tolerant perennials?
 - A) Coreopsis, baptisia, oriental poppy, rudbeckia
 - B) Hosta, lobelia, columbine, bleeding heart
 - C) Daylily, yucca, peony, gaillardia
 - D) Iris, veronica, violet, salvia
- 235. How many essential nutrients are essential to plant growth and reproduction?
 - A) Three
 - B) Four
 - C) Six
 - D) Sixteen
- 236. When is the best time to divide a mature chrysanthemum?
 - A) When it is about three inches tall in the spring
 - B) When the plant is not blooming during the summer
 - C) After blooming in the fall
 - D) When it is dormant in the winter
- 237. If your soil is too acid, you can correct it by:
 - A) Adding garden sulfur
 - B) Adding ground limestone
 - C) Ammonium sulfate
 - D) Ferrous sulfate
- 238. Most bulbs are planted in the:
 - A) Spring
 - B) Summer
 - C) Fall
 - D) Winter
- 239. Which of the following are groups of biennial plants?
 - A) Coreopsis, English daisy, honesty (silver dollar plant)
 - B) Sweet William, hollyhocks, foxglove
 - C) Forget-me-not, Canterbury-bells, viola
 - D) Veronica, wallflowers, pansies

240.		When seedlings grown indoors are moved outdoors, they must be to be able to survive
in t	their	new environment.
	,	Pinched
	,	Deadheaded
		Transplanted
	D)	Hardened off
241.		Which group of flowering plants benefits from being divided every few years?
	A)	Perennials
	,	Annuals
	,	Biennials
	,	Vines
242.		Which group of plants are summer to fall flowering?
	A)	Yarrow, yucca, coreopsis, gaillardia
	,	Oriental poppy, rudbeckia, salvia, candytuft
		Physostegia, peonies, iris, columbine
		Daylilies, bleeding heart, ranunculus, butterfly weed
243.		When planting bare-root roses, do not:
	A)	Prune canes back by about a third of their original length
		Soak the rose in a bucket of water before planting
	C)	Prune the roots
	D)	Make a mound to spread the roots upon
244.		Which of the following are summer blooming plants?
	A)	Fritillaria, calla lilies, grape hyacinths
	B)	Gladiolus, anemones, Siberian squill
	C)	Tulips, daffodils, crocus
	D)	Montbrecia, agapanthus, gloriosa lilies
245.		Some flowering plants, known as everlastings, have flowers suitable for drying. They include:
	,	Zinnias, celosia, dahlias
		Statice, petunias, ammobium
		Strawflwers, globe amaranth, bells of Ireland
	D)	Yarrow, phlox, marigolds
246.		When cutting roses to use indoors or to remove spent blossoms:
		Make the cut above the first strong, three-leaflet leaf
		Do not leave at least two good leaves of the stem
		Cut directly below the first strong, three-leaflet leaf
	D)	Cut directly below the first strong, five-leaflet leaf
247.		A cutting garden is a plot of land set aside fro the purpose of growing flowers for what use?
		Outdoor bouquets only
	,	Commercial florist
		Supermarket florist
	D)	Indoor bouquets only

A correct way to remove mealy bugs from plants is:

		Dab each bug with a cotton swab dipping in rubbing alcohol
		Use a pesticide Use a fungicide
		Rinse the leaves with milk
	-,	
249.		Fertilizer that you add to your flowering plants contain the following elements in the correct
oro	ler:	
		Potassium, nitrogen, iron
		Nitrogen, phosphorus, potassium
		Nitrogen, phosphorus, iron
	D)	Nitrogen, potassium, phosphorus
250.		Although technically not insects, these tiny pests can work havoc on flowering plants:
	A)	Thrips
		Aphids
		Red spider mites
		Leaf cutting beetle
251.		What type of water supply do cut flowers need to transport food and to keep the stems stiff?
2011	A)	Constant water supply
		Occasional water supply
		Periodic water supply
		Cold water supply
252.		Heavy-headed flowers, such as large mums, often bend by the flower head, nearly breaking off
	hat s	hould be done to temporarily improve this situation?
,,,		Use hot glue gun to glue flower head on
		Use string to tie flower head on
		Use wire to tie flower head on
	D)	Insert tooth picks pointed through the bloom into the stem
253.		Which of the following is not a purpose of mulch?
	A)	Mulch keeps the ground cool
		Mulch limits the growth of weeds
		Mulch conserves moisture
	D)	None of the above
254.		Most lilies are planted 6-8" below the soil surface. Which type needs to be planted more
	allov	
		Tiger lilies
		Madonna lilies
		Oriental lilies
	D)	Trumpet lilies
255.		A has a flower bud within it surrounded by layers of food supply.
	A)	Corm
		Rhizome
	,	True bulb
		Tuber
256.		Which of the following annuals can be propagated by cuttings?

	A) Petunias
	B) Wax begonias
	C) Larkspur
	D) Cosmos
257.	Plants need which part of the visible spectrum for good foliage development?
	A) All of the visible spectrum
	B) Red
	C) Green
	D) Blue
258.	Round nodules or long, irregular highly branched swellings on roots are caused by and
	ock the flow of water and nutrients.
010	A) Nematodes
	B) White grubs
	C) Root gall
	D) Wireworms
259.	Abnormally streaked or striped flower petals are a symptom of 'flower breaking'. This problem
is	common tulips, lilies and gladiolus and is caused by:
	A) Fungi
	B) Thrips
	C) Viruses
	D) Aphids
260.	What is the most important thing to do for hulbs to produce flowers during succeeding years?
200.	What is the most important thing to do for bulbs to produce flowers during succeeding years? A) Use a fertilizer high in iron
	B) Use a fertilizer high in phosphorus
	C) Use a fertilizer high in nitrogen
	D) Grow a good crop of foliage
	b) Grow a good crop of foliage
261.	Which type of rose has multiple large flowers on a single stem?
	A) Polyanthas
	B) Floribundas
	C) Grandifloras
	D) Hybrid teas
262.	What is a good method to naturalize hulbs in the lawn?
∠UZ .	What is a good method to naturalize bulbs in the lawn? A) Line them up in rows
	B) Throw them in the air and plant where they fall
	•
	C) Plant them on a checkerboard pattern D) Pulls cannot be networked in the lawn
	D) Bulbs cannot be naturalized in the lawn

- 263. The removal of all side buds to produce a single large bloom on plants such as roses, dahlias, and chrysanthemums is called:
 - A) Deadheading
 - B) Pinching
 - C) Disbudding
 - D) Dividing
- 264. What is a good sign that potted plants need to be repotted?

	B) C)	New leaves are quite a bit smaller than older ones New leaves are quite a bit larger than older ones Leaves are turning yellow The plant is becoming tall and lanky
265. flo	wers	Flowers and foliage can be attacked by these insects and cause colorless streaks and withereds.
	A)	Aphids
	B)	Red spider mites
	C)	Coddling moths
	D)	Thrips
266.		Perennials cannot be propagated from:
		Seeds
		Root cuttings
		Stem cuttings None of the above
	(ע	None of the above
267.		Most indoor foliage plants need which kind of lighting?
		Direct sunlight
	,	Bright light
		Bright indirect light
	D)	Medium light
268.		Most bulbs are best planted:
	A)	In areas with afternoon sun
	B)	In areas with constant sunlight
		In the heavy shade of buildings, trees and shrubs
	D)	In very moist soil
269.		The term "texture" as it applies to plants, includes such adjectives as
		Fine, medium, and bold
	,	Smooth, fuzzy and spiny
		Corymb, umbel and panicle
	D)	Entire, serrate and lobed
270.		A garden that uses a complementary color scheme is one that
	,	Uses flowers in various tints and shades of one color
		Uses colors closely related to one another on the color wheel
		Uses colors that are opposite to one another on the color wheel Combines all colors
271.		Cool colors include color combinations like
2/1.	۸)	
		red, red-orange, orange, yellow-orange, yellow blue-green, blue, blue-violet, and violet
		black, white and green
		yellow, pink and red
	ינע	
272.	A \	The kind of garden that shows the least design is
	A)	Beds B) borders C) cottage gardens D) formal gardens

273.		The type of p	lant that lives	s for more than two	years is a	/ an
	A)	Annuals	B)biennials	C) per	ennials	D) cuttings
274.		The best way	to design a b	order is to		
217.	A)	-	-	ly in the border		
		-	-	-	lually plant	shorter plants towards the edges
			-		• •	e middle and shortest in the back
						dle and tallest plant sin the back
275.	1 4					you need to know which climatic zones
a j	_	_	B) 6 and 7	ntic zones is the Ho C) 8 ar		
	A)	4 and 5	b) 6 and 7	C) o ai	iu 9	D) 10 and 11
276.		The reason for	or putting irre	gularly shaped sto	nes or broke	en pieces of pottery into the bottom of a
po	ot co					
	A)	They let air in	nto the pot fro	om the bottom		
				ow out the bottom		
				after being water		
	D)	It is just an ol	ld tradition pa	assed down from p	erson to per	rson and does not help the plants
277.		The best kind	l of soil to pla	ant flowers in is		
2,,,	A)	Sand	B) Silt	C) Clay		 Loam
	,		,	, •	,	
278.				nching" plants?		
		Pinching is th				
				to become bushi		
				y requiring less fer		
	(ע	Pinching is the	ie reinovai oi	large insects such	as beeties	
279. 1	Γhis	element is esse	ential for stro	ng stems, strong ro	oots and dee	ep flower color. A deficiency in plants
				and browning of le		
		rogen	B) Iron	~		D) Potassium
200 7	F1 1			1		
			_	plants is		
A) In		0	B) i:	n the middle of the	e day	C) in the evening
	(ע	at night				
281. <i>A</i>	A soi	l that drains to	o fast or too	slow can best be in	nproved by	
						mold or pest moss
		B) adding sar	nd	C) adding gyps	sum	D) nothing can fix this soil
•	_					
282. N	vlost		_	in		1 1
		A) very acidi D) neutral or		B) alkaline soi	IS C) i	rocky soils
		D) Heutral O	r siightiy acto	uic sons		
283.Ic	d see	ds are sown ou	ut-doors, whe	n is the best time t	o thin plant	s?
				own B) whe	-	
		C) when the	y have 2 sets	of leaves	D) when the	hey have a single set of leaves
204 11	7h: -1	of the fall	المالية مناسبة	iona ono akada 4-1:		siala?
∠ŏ4. W	v IIICI	i oi me ionow	mg combinat	ions are shade-tole	ram perenn	nais!

A) coreopsis, baptisia, oriental poppy and rudbeckia

	B) hosta, lobelia, columbiaC) daylily, yucca, peony andD) iris, veronica, violet and	d garillardia	i	
285.When is th	A) when it is about 3 inche B) when the plant is not bloc C) after blooming in the fall D) when it is dormant in the	es tall in the spring oming during the sumn	ner	
286. If your soil is A) garden s	acidic, you can correct it by ac sulfur B) ground limesto	_	ım Sulfate	D) ferrous sulfate
287. Most bulbs are C) fall	re planted in the D) winter	A) spring	B) s	ummer
A) coreopis B) sweet W C) forget-m	following are groups of perents, English daisy, honesty (Silve William, hollyhocks, foxglove ne-not, Canterbury bells, viola a, wallflowers, pansies			
289. When seedling environment.	gs grown indoors are moved on A) pinched B) d	_	to be able ansplanted	to survive in their new D) hardened off
290. Which group (A) perenni	of flowering plantgs benefits frials B) annuals	rom being divided ever C) biennials	ry few years? D) vines	
A) yarrow,	of plants blooms from summer, yucca, coreopsis, gaillardia egia, peonies, iris, columbine	B) oriental p	110	tia, salvia, candytuft nculus, butterfly weed
A) prune ca B) soak the C) prune the	g bare-root roses, do notanes back by about 1/3 of their roses in a bucket of water before roots mound to spread the roots upon	original length ore planting		
A). fritillari	following are summer flowering ia, calla lilies, grape hyacinths affodils, crocus	B) gladiolus	s, anemones, Se ecia, agapanth	erbian squill aus, gloriosa lilies
A) zinnias,	ng plants, known as everlasting celosia, dahlias B) sowers, globe amaranth, bells-	tatice, petunias, ammol	bium	They include phlox, marigolds
A) make the B) do not le	roses to use indoors or to remove cut above the first strong three eave at least two good leaves outly below the first strong, three	ee leaflet leaf on the stem	·	

D) cut directly below the first strong, 5 leaflet leaf

296.	A) outdoor bouquets only B) commercial florists C) supermarket florist D) indoor bouquets only
297.	A correct way to remove mealy bugs from plants is A) dab each bug with a cotton swab dipped in rubbing alcohol C) use a fungicide D) rinse the leaves with milk
298.	The fertilizer that you add to your flowering plants contains the following elements in the correct order. A) potassium, nitrogen, iron B) nitrogen, phosphorous, potassium C) nitrogen, phosphorous, iron D) nitrogen, potassium, phosphprous
299.	Although technically NOT insects, these tiny pests can work havoc on flowering plants. A) thrips B) aphids C) red spider mites D) leaf cutting bees E) none of the above
300.	What type of water supply do cut flowers need to transport food and to keep the stem stiff? A) constant water supply B) occasional water supple C) periodic water supply D) cold water supply E) E) none of the above
301.	Heavy headed flowers, such as mums, often bend by the flower head, nearly breaking off. What should be done to temporarily improve this situation? A) use hot glue to glue the flower head on B) use string to tie the flower head on C) use wire to tie the flower head on D) insert tooth picks pointed through the bloom into the stem E) none of the above
302.	Which of the following is a purpose of mulch? A) mulch keeps the ground cool B) mulch limits the growth of weeds C) mulch conserves moisture D) all of the above E) none of the above
303.	Most lilies are planted 6 to 8 inches below the soil surface, Which of the following lilies needs to be planted more shallowly? A) tiger lilies B) Madonna lilies C) oriental lilies D) trumpet lilies E) none of the above
304.	A has a flower bud within surrounded by layers of food supply. A) corm B) rhizome C) true bulb D) tuber E) none of the above
305.	Which of the following annuals can be propagated from cuttings? A) petunias B) wax begonias C) larkspur D) cosmos E) none of the above
306.	Round nodules or long, irregular, highly branched swellings on roots are caused by and block the flow of water and nutrients. A) nematodes B) white grubs C) root galls D) wireworm E) none of the above
307.	Abnormally streaked or striped flower petals are a symptom of "flower breaking". This problem is common on tulips, lilies and gladiolus and is caused by A) fungi B) thrips C) viruses D) aphids E) none of the above
308.	What is the most important thing to do for bulbs to produce flowers during succeeding years? A) use a fertilizer high in iron B) use a fertilizer high in phosphorous

C) use a fertil	lizer high in nitrogen	D) grow a	good crop of fol	iage E) no	one of the above
· ·	rose has multiple large as D) hybrid te	_		olyanthas	B) floribundas
B) throw the	I method to naturalize lem in the air and plan not be naturalized in a l	t them where they f	· · · · · · · · · · · · · · · · · · ·	t them in a che	rows ckerboard pattern
chrysanthemu	f all side buds to product ams is called	A) deadhe	eading		
A) new leave B) new leaves	I sign that potted plants as are quite a bit small s are quite a bit larger t turning yellow	ler than old ones than older ones		nky E) n	one of the above
313. Flowers and for flowers. The	oliage can be attacked be see insects are	by these insects whic A) aphids	h will cause color	less streaks an d spider mites	
	be propagated from above E) no		B) root cuttir	ngs C) st	tem cuttings
	oliage plants need which the C) bright, indirect		ind of light? D) medium li		_
	best plantedith constant sunlight pist soils E) no		in areas with aft neavy shade of bui	t ernoon shade ildings, trees a	e nd shrubs
	,	of the perceived value		sence of	
•	right heating system for entify the one that is Notenhouse D) co		A) climate	B) ty	ne following ype of container one of the above
319. A physiologica A) bacterial b	al disorder of geranium blight B) botrytis b	as caused by high mobilight C) oedem			one of the above
320. The unit of hea A) Btu	at measurement used in B) CCM	_	ustry is the Ocm	E) none of t	he above
321. The principle (A) rhythm	of total compatibility of B) texture	-	gement with each D) proportion		ed one of the above
322. There are 3 pri	mary ways heat is lost	in a greenhouse. W	hich of the follow	ing is not one	of these ways?

`	A) air leakageE) none of the above	· · · · · · · · · · · · · · · · · · ·	C) cc	onduction	D) radiat	cion
323.	Upper leaves which sh A) lack of water D) a nitrogen deficie	B) a sulfur		C) an	 iron defic	ciency
324.	There are 3 basic type is NOT one of these CC) azalea pot	3 basic types of pots?	A) d		В	Thich of the following 3) standard pot
325.	This is an abbreviation greenhouse. Identify C) AM-PM		A) D		B) DT/N	-
326.	A process used by gro A) stunting	wers to produce well B)compacting	-	act plants with r D) po	•	ers is called E) none of the above
327.	The most commonly u	sed growth retardant D) slow grow			cocel	B) diazanon
328.	Flowers which are wo B) hand-tied bouquet					n corsage E) none of the above
329.	Cut carnations are class A) floral and greenhor D) pompom and stan	ouse B)	standards and n	niniatures		rnations? remium and discount
330.	Rooted cuttings of car The primary reason f B) not wet foliage E) none of the above	or this type of wateri C) allow the		A) co	ntrol costs	•
331.	One popular color con A) copper, silver, gol D) earth tones, taupe	d B) aqua, p	Fe colors of the beach, adobe none of the above	C) bla		se colors include: iite with any hue
332.	In order to create succ combinations called schemes: D) quadraplex	_	of the following in B) ar	-	-	
333.	Color is important in the guidelines comm. B) use darker colored C) never allow one of E) none of the above	only followed in flor I flowers deeper and color to dominate	al arranging:	A) repagement	peat colors	wing is NOT among in a design
334.	A component of green 1800 degrees F is D) perlite		vermiculite	ceous volcanic B) rockwool		ned and heated to C) calcined clay

335.	This growth reg					ering in cyclamen. It is
		A) auxin		bberellic acid	C) B-	nine
	D) ethephon	E) none of the	e above			
336.		of design are fundament ollowing is NOT amon C) emphasis	g the major pr			forms have developed. A) balance ciples
337.	create stable ef	rangements, materials fect; they are sunken a esign that are related to e D) lighting &	little further i balance:	nto the arrangement fo A) color & tone	r depth.	Identify the significant
338.	which is NOT A) arrangemen B) flowers used	ics of a formal arrange normally associated wint it is usually symmetrical d include roses, orchide smooth, shiny or velve	ith a formal ar ally balanced s and cazrnation	rangement.	nent ma	lentify the characteristic by be placed off-center
339.	developed a grarranging. Wh A) avoid cross:	ral design has become a coup of traditional guide aich of the following, if ing lines and lines that are from lining up in distance above	elines that are any, are part change abrupt	frequently cited by peo of these traditional gui- tly as	ople inv	olved in flower
340.	A) control of p	on single aspect of per lant height g the garden's location	B) deciding	•		lesign ne of the above
341.	A more expension A) jardinière	ve decorative container B) quick sleeve				ne of the above
342.	B) two colors of	r harmony utilizes directly opposite each c ee adjacent colors on t	other on the co	olor wheel C) tir	nts, shad	y and secondary color les and tones of one hue
343.	All but one of the A) daffodil	ne following is easily so B) dusty miller	uitable for pre C) pansies	ssing. Which item is N D) African violets		table for pressing. ne of the above
344.	The genus and s B) lathyrus odd E) none of the	· · · · · · · · · · · · · · · · · · ·	rnation is emone corona			caryophyllus maritime
345.	Which of these A) cascade bou	flowers for a wedding e arrangements would r aquet arrangement guest table arrangement	not be suitable B) ke		nt	ving arrangements. E) none of the above

pr th	operly assist the ese factors?	e bride for this A) loca	nere are basic consides important occasion tion of wedding E) none of the	Which, if an B) formalit	ny of the items	below are NOT one of
	_	ture for poinse C) 70 to	ettia growth is o 90		grees F. E) none of	
so		the root system	_	is the correct	amount of soil	heavy, while too little in relation to the height of E) none of the above
fo	rtain plants are or terrariums? neither of the	A) cree		-	•	e following are suitable C) both of the above
\mathbf{B}		ant	nmonly used C) pinching agent		height enhancer growth promote	
th	e three "C"'s?		For selling in a flower A) create an interest D) close the	-	B) c	ing is NOT in cluded in contain the cost the above
\$1	nen utilizing the 12.00 would reta) \$45.00	ail for			al wholesale val \$ 120.00	ue of the material costing C) \$60.00
sp A) C)	pace for custome) wrapping / sal) display refrige	ers to move ab es counter wit erator holding		following feath B) design to the ments and cut to the ments and cut to the ments are the ments ar	ures is NOT typ table for makin flowers for sale	
\mathbf{A}	nich of these sur delphinium none of the ab	B) blue	g perennials produc plumbago	e dense, bristl C) bleeding	•	e color? D) globe thistle
		hids a hygron C) air flow	neter is used to meas D) humidity		A) to about the about	remperature ve
	nue plus gray w) split complem		han the pure hue, an B) tone	nd produces a C) shade	soft, soothing e	effect is a E) none of the above
ni		of 10 to 15 de	-	may	•	In fact without a day – e to grow healthy foliage pove
ty	pical acceptable			najority of ord	chids falls withi	selecting orchids. The n degrees F. E) none of the above

359.	The most popular orchid C) tree fern fiber	potting material is D) lava rock	A) osmunda fi E) none of the above	ber B) fir bark	
360.	Tiny insects are often v	a pest problem. The buds, risible. A sticky fluid secre ants. The most likely problem (C) mealybugs (D) s	eted by the insects provided	rowth are pitted or stunted. es a medium for growth of A) spider mites E) none of the above	
361.		in tulips planted outdoors a eratures and lack of winterium deficiencies		essive moisture	
362.		The probable cause is	A) over fertili	is dark green and healthy, bu zation B) underwaterin e of the above	
363.	advantages of a contain B) plants can be spotlig C) you can enjoy plants	antages to having a contain her garden? A) of ghted because of their locates is where an in ground garde E) none of the above	containers are mobile ion n is impossible	following, if any, are	
364.	<u>-</u>	ing fragrant yellow flowers B) Carolina Jessamine			
365.		ons might include which of C) petunia and ver		A) sunflower and rose moss eus and impatients	
366.	Plants native to regions (A) hardy annuals E) none of the above	where summer is warm-to-l B) tender annuals		frost free are called annuals D) biennials	
367.	Silver thiosulfate (STS) B) causes petal absciss: E) none of the above		A) is an ethylene ant as bacterial activity		
368.	This growth regulator in A) auxin E) none of the above	creases the flower size of g B) gibberellic acid		flowering in cyclamen. D) ethephon	
369.	A group of closely space A) pon E) none of the above	ed flowers, net and accessor apon B) corsage			
370.		potted plants is caused by the D) all of the above		lt stage B) larval stage	
371.	A type of propagation in	which the propagule rema	ins attached to the parent	plant is termed	

	A) layeringE) none of the above		C) ro	ot cutting	D) division
372.	An instrument which A) manometer E) none of the above	B) tensiometer	rical conductivity of C) photomete		called a/an bridge
373.	Short, crooked rose por B) Botrytis blight E) none of the above	C) calci		•	ssive vigor ssive soluble salts
374.	The greatest control of A) controlled tempo D) fan and pad cooli	erature forcing	B) commerci	al care cooling	
375.	All of the following a B) Dutch iris				A) dahlias E) none of the above
376.	A good substitute for A) peat moss		-	_	This is E) none of the above
377.	Floral arrangements d another are called C) naturalistic arrang		A) mass arrangemen	ts B) abstr	m one point of interest to act arrangements E) none of the above
378.	Cultivars differ in the This time is called the D) acclimatization p	ne	A) DIF	B) response	ct of inductive short days. C) finishing time
379.	Gladiolus corms are t C) cormels				omes B) bulbs
380.	This fungus attacks a single pathogen. C) Alternaria	A) Pyth	amental plants, prol ium root rot ophthora	bably causing mode. B) Botrytis cin E) none of the a	
381.	Common to geranium production. This dis C) edema			ecrosis	ter relations during B) chlorosis
382.	A device used to mea A) hygrometer	sure air pressure be B) tensiometer	etween two plastic la C) manometer	-	
383.	Orchids are distinguis C) zygomorphic flov		flowers by their D) a and c	A) roste	
384.	The acceleration of fl A) pulsing B) f	owering by manipuorcing C) leach			known as E) none of the above
385.	Ridge and furrow gree A) north to south	enhouses at all latit B) east t		nted C) to the builde	

	D) northwest to	o southeast	E) non	e of the above			
386.	The number one B) Hawaii		tion state in acr ifornia				Texas
387.	These annuals w A) hardy	-	ods of damp or C) bier		•	ed by frost. E) none o	
388.	An arrangement container. E) none of the	A) 5 to	times the l			e length of D)	
389.	A mum cultivar called a D) miniature m	A) spr		B) disbud mu	_		
390.	The light intensi A) photosynthe C) light compe	etically active ra	ndiation	B) approxima	tely 1000 foot	candles	ove
391.	The florists chry C) short day pl		D) all of the a				complex hybrid
392.	The growth reguand potted lilie D) bonsai	s is	A) A-r			-	os, potted dahlias florel
393.	Field production C) crowns	_	accomplished lbs		A) co	rms B)	cuttings
394.	Hiemalis Begon B) carbon diox	ia is very respo ide levels	nsive to C) temperature	e D) b a	A) high nutricand c	ent levels E) none o	f the above
395.	A good example C) rose	of a CAM plan D) chrysanthe			A) poinsettia e above	B)	kalanchoe
396.	Plant texture is of B) foliage dens				e leaf feels to t b and c		f the above
397.	A naturally occu C) IPA	-	uced in apical 1 E) none of the			A) IBA	B) NAA
398.	A brown foam e flowers is D) Styrofoam			oral stems, whi B) hol		rrangement C) Sahar	•
399.	Costs associated are called D) overhead				looming plant, B) indirect co	_	wedding flowers C) fixed costs
400.	The hook metho	d of wiring for	floral arrangen	nents is used for	or	A) flat he	aded flowers

B) tubular flowers C) delicate flowers D) roses E) none of the above