

2016 National FFA Floriculture Career Development Event General Knowledge Exam



Directions: Select the best answer for each question and mark your selection on the separate scantron sheet provided. *Mark answers in the Exam section on the scan-tron located in the bottom right hand corner.*

1.	DIF, used for height management of crops, temperature and A) temperature requirement B) morning temperature C) nighttime temperature D) none of the above.	s the difference between the daytime
2.	In commercial greenhouses, which of the forway to regulate plant growth without using A) crop timing B) water stress C) container size D) all of the above	
3.	Agrobacerium tumefaciens is a pathogen th	at is commonly known as
	A) crown gall	C) clorotic mottle
	B) flower distortion	D) none of the above
4.	The recommended pH level for greenhouse A) 3.0-3.5 B) 5.6-6.2	crops in a soilless medium is C) 4.0-4.3 D) all of the above
5.	The virtual visual path that directs eye move	ement through a composition is .
	A) pattern	C) form
	B) line	D) none of the above
6.	Orange, green and violet are color A) primary B) secondary	rs. C) intermediate D) tertiary

7.	The fundamental guidelines to aesthetic de elements and materials in accordance with	
	A) Elements of Design B) Transitions of Design C) Principles of Design D) none of the above	
8.	Which of the following is NOT a plant horm regulator? A) ethylene B) anthocyanin C) abscisic acid D) gibberellin	one that can be used as a plant growth
9.	A 28 gauge florist wire is than 18 ga	_
	A) thicker	C) longer
	B) thinner	D shorter
10.	The LD ₅₀ of a pesticide indicates: A) the amount of the pesticide required to subject B) the time before re-entry into a chemicall C) the amount of chemical needed for effect D) none of the above	y treated area
11.	Pesticide toxicity is measured in LD_{50} or LC_5 numbers for pesticides is the most toxic?	₀ numbers. Which of the following LD ₅₀
	A) 295 mg/kg	C) 34 mg/kg
	B) 1217 mg/kg	D) 4,237 mg/kg
12.	The planned area within a floral design, who bjects, but is still integral to the design is ket. A) the focal area B) positive space C) negative space D) all of the above	

A) pattern B) form	C) depth D) balance
 14. With mat irrigation, water moves by	from the mat into the root subs
15. The cost of the plant materials (i.e. cost of	seeds, cuttings, bulbs, or other plant
propagules) would be examples of	-
A) wholesale	C) fixed
B) overhead	D) direct
A) huesB) color valuesC) color harmoniesD) none of the above	
17. When propagating asexually, roses can beA) vegetative cuttingsB) budded plantsC) grafted plantsD) all of the above.	reproduced from
18. Soil pH is based on the concentration of _A) calciumB) hydrogen	ions in the soil. C) oxygen D) sulfur
A) calcium	C) oxygen D) sulfur ums? underside of the leaf

20.	Wh	nich of the following is NOT a part of the	pistil of the plant?
	A)	Style	C) stigma
	B)	Ovary	D) filament
21.		e phase begins when a plant's ves, stems, and roots.	s seed germinates and grows, producing
	A)	annual	C) reproductive
	B)	dormancy	D) vegetative
22.	The	e tiny pores in the epidermis of a leaf thr	ough which gas enters and escapes are
	A)	 Cuticle	C) stipule
	B)	Petiole	D) stomata
23.	ref	erred to as	the leaves in the form of water vapor is
		dehydration	
		photosynthesis	
	C)	respiration	
	D)	transpiration	
24.	The	e waxy coating, called the	, serves to prevent excessive water loss
	fro	m the leaf tissues.	
	A)	axil	C) cuticle
	B)	blade	D) vein
25.		ne furnishes, one of the ments.	e most important of the macro food
	A)	potassium	C) sulfur
	B)	phosphorus	D) calcium
26.	the A) B) C)	exin is responsible for apical dominance is plant located in the main stem, older leaves, and flowers flower buds, leaf buds, and fruit leaf petiole, shoot tips, and main older shoot tips, young leaf blades, and root t	
27.		omplete fertilizer is recommended for a ow is NOT a complete fertilizer?	greenhouse crop. Which fertilizer analysis
		16-4-8	C) 5-10-10
	•	10-0-10	D) 17-17-17

28.	Mass flowers include all of the following exc	cept:
	A) chrysanthemums	C) carnations
	B) baby's Breath	D) zinnias
29.	Two hues directly opposite each other on th	
	A) diadic	C) polychromatic
	B) monchromatic	D) complementary
30.	Broken, implied, and continuous are all part	of which element of floral design?
	A) space	C) color
	B) line	D) texture
21	Light inside a greenhouse is measured in	
J1.	A) solar energy	C) foot candles
	B) foot light	D) solar candles
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32.	Poinsettias require ato pr	oduce colored bracts.
	A) short day photoperiod	
	B) long day photoperiod	
	C) cool day temperature regime	
	D) cool night temperature regime	
33	Thrips can be effectively managed in the gre	eenhouse by using
55.	A) a biological control such as the predator	, -
	B) a chemical control such as the insecticide	
	C) screening over vents and other openings	, sp.,, esac
	D) all of the above	
	•	
34.	An insect generally doe	s not kill insects, but instead drives them
	away before they attack the plant.	
	A) attractant	C) repellent
	B) pheromone	D) sterilant
35.	To help identify plants, flower forms are gro	ouped as to their position or arrangement on
	a stem. The flower position or arrangement	
	A) flower inflorescence	C) imperfect flower
	B) perfect flower	D) flower calyx

36.	After pollination and fertilization, the flowe other surrounding parts enlarge and develo	-
	A) fruit	C) new flower
	B) leaf	D raceme
37.	Which of the following diseases does NOT aA) BotrytisB) PythiumC) RhizoctoniaD) Phyrophthora	ffect the root system of plants?
38.	The Environmental Protection Agency established on how soon one can reenter the are pesticide. Which toxicity level can be reent application? A) Toxicity 1 B) Toxicity 2 C) Toxicity 3 D) Toxicity 4	a after it has been treated with the
39.	In order to preserve foliage in a more nature A) glycerin B) bleach	al, pliable state, place stems in: C) herbicidal soap D) borax
40.	Greenhouse glazing is: A) material sprayed on the roof of a greenh B) the transparent cover of the greenhouse C) the amount of solar energy that reaches D) a measure of heat loss from a greenhouse	e frame the plants in a greenhouse
41.	When water is not applied frequently enoughA) photosynthesis is slowed.B) plant growth is slowed.C) cell production is reduced.D) all of the above	gh, plants wilt and
42.	Plants are divided into C ₃ and C ₄ groups. C ₄ which of the following? A) C ₄ plants flower in shades of red where B) C ₄ plants have a higher relative photosy C) C ₄ plants are not as efficient at using car D) C ₄ plants cannot function as well under	as C ₃ plants do not nthesis rate bon dioxide

44 Cross pollination	occurs when pollen grains from the flowers on one plant transfer to
	flowers on another plant.
A) anther	C) stigma
B) ovary	D) style
45	is a process of events whereby the seed embryo goes from a
dormant state to a	an actively growing state.
A) broadcasting	C) germination
B) fertilization	D) pollination
46. Some seeds have	a hard seed coat that must be soaked or scratched before the seed
are able to germin	nate. This process is called
A) drenching	C) scarification
B) forcing	D) stratification
47. The is t	the food storage tissue in the seed that nourishes the plant during
47. The is t germination.	the food storage tissue in the seed that nourishes the plant during
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germination.	
germination. A) embryonic root B) endosperm	t C) seed coat D) seed leaf
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germination. A) embryonic root B) endosperm 48. commonly used to A) Coir B) Peat moss 49. The ability of a pla A) cold-sensitive B) heat-tolerant	C) seed coat D) seed leaf is a gray-white soil mix material of volcanic origin that is most origin that i