

## NATIONAL FFA FLORICULTURE CDE

## GENERAL KNOW LEDGE EXAM

Rubric	the best answer for each question and mark your selection on the separate E - sanswer sheet provided.
1.	The water -conducting tissue of plants is called
	a. xylem
	b. phloem
	c. peduncle
	d. pedicel
2.	A chemical compound used as an additive to prevent the growth of bacteria in vase water is considered to be a(an)
	a. acidifier
	b. biocide
	c. botrytis
	d. citric acid
3.	Rolling back petals of a flower to create a more open blossom is called
	a. petalling
	b. reflexing
	c. sewing
	d. tailoring
4.	What is a common target date for bracts to develop color and the flowers open?
	a. September 15
	b. October 10
	c. Nove mber 15
	d. December 25

5.	A state of equilibrium where both sides of the design are equal.
	a. asym m etrical design
	b. sym m etrical design
	c. composition
	d. form
6.	The portion of a design engaged by objects. An area occupied by flowers, foliage, or other objects within a floral design.
	a. positive space
	b.negative space
	c.accent
	d. focal point
7.	The organization of components into a harmonious whole resulting in a cohesive relationship of all parts defines
	a.unity
	b.balance
	c.theme
	d.harmony
8.	Florist wire is sold by gauge. Athin, light wire would be what number gauge?
	b. 12
	c. 22
	d.28
9.	The secondary colors consist of:
	a.green, orange, violet
	b. Violet, blue, red
	c.yellow,red,blue
	d.green, yellow, blue
10.	Fresh flowers should be stored in a floral cooler at 34-38 degrees F with 80-90% relative hum idity.
	a. Tru e
	b. False

- 11. A purlin in greenhouse construction is used for what purpose?
  - a. Frame components spanning the space between the eave and the ridge.
  - b. A panel attached to the greenhouse that perm its opening for ventilation.
  - c. A component of the greenhouse frame running the length of the greenhouse just below the roof covering that connects trusses together.
  - d. A component of the greenhouse frame spanning the width of the greenhouse that is welded or bolted together.
- 12. The essential ingredients for photosynthesis to take place in the plant is:
  - a. Water, oxygen, carbon, light
  - b. Water, carbon dioxide, chlorophyll, light
  - c. Carbon dioxide, glucose, chlorophyll, light
  - d.Oxygen, light, hydrogen, glucose
- 13. Of the following nutrient list which one includes only micronutrients?
  - a. Zinc, copper, sulfur, phosphorus, boron, calcium, and chlorine
  - b. Manganese, zinc, potassium, calcium, copper, iron, and chlorine
  - c. Iron, nitrogen, sulfur, magnesium, molybdenum, boron, and manganese
  - d. Boron, zinc, copper, molybdenum, iron, manganese, and chlorine
- 14. Applying too much nitrogen to plants can cause adverse effects on plant growth. Of the following four items which is not a plant's response to excessive nitrogen:
  - a. Weaken the stem because of long and soft growth
  - b. Lower the plants resistance to disease
  - c. Yellow or light green leaves on the plant
  - d. Lower the quality of the fruit of the plant causing them to be soft to ship
- 15. The three basic parts of a seed are:
  - a. Seed coat, endosperm, and embryo
  - b. Cotyledons, roots, and seed coat
  - c. Endosperm, roots, and embryo
  - d. Primer, seed coat, and embryo

- 16. In a flower shop which of the following are not considered overhead expenses?
  - a. Rent or mortgage payment
  - b. Hard goods
  - c. In surance
  - d. Utilities (water, gas, electricity)
- 17. Auxin is produced in the shoot tips by a plant. The purpose of auxin in the plant is to:
  - a. In hibit lateral branch development
  - b. Start the process of flower development
  - c. Promote lateral branch development
  - d. Encourage seed development
- 18. REI to a greenhouse worker means:
  - a. Reliant en viron mental interval
  - b. Retractant em ergency integration
  - c. Reliable en viron mental in formation
  - d. Restricted entry interval
- 19. Which pesticide LD50 number listed below is the most toxic?
  - a. LD50 of 5,045
  - b. LD50 of 45
  - c. LD50 of 545
  - d. LD50 of 145
- 20. An arm ature in floral arrangements is used:
  - a. To create a fram ework to hold stems in place
  - b. To support a floral design container
  - $c.\, To\,\, create\,\, a\,\, system\,\, for\, transporting\,\, floral\, work$
  - d. To make a flower stem longer

21. flow	If a species has separate plants with each plant having only male flowers or female ers, the plant is considered
	a.com plete
	b. dioecious
	c.monoecious
	d.perfect
22.	is a process in which glucose combines with oxygen to produce energy in a form that can be used by plants.
	a. Coh e sion
	b. Photosynthesis
	c. Respiration
	d. Transpiration
23.	A pesticide label cautions against derm al contact; this means the poison could enter the body by
	a. contact with skin
	b.ingesting
	c. in h a lin g
	d.transfusion
24.	deficiency appears as a marginal yellowing or scorch on the edges of leaves on the lower portion of the plant.
	a. Calciu m
	b. Iron
	c. Nitrogen
	d. Potassiu m
25.	Photosynthesis primarily occurs within theinside plant cells.  a.chloroplast
	b.golgiapparatus
	c.nucleus
	d.vacuole

26.	A plant with a species name macrophylla could be expected to have								
	a. sm all leaves								
	b.large leaves								
	c.sm all flowers								
	d.large flowers								
27.	The are crescent shaped and are responsible for opening the stom a								
	a.lenticels.								
	b. vascular bundles								
	c.receptacles								
	d.guard cells								
28.	Chrysanthem ums typically flower in late summer or fall. Their photoperiod category is considered which of the following:								
	a. Day-Neutral Plants								
	b. Long-Day Plants								
	c. Short-Day Plants								
	d. Daily Light Integral Plants								
29.	are responsible for cell division and differentiation. They are produced in the roots and transported throughout the plant through the xylem.								
	a. Eth ylenes								
	b. Gibberellins								
	c. Au xin s								
	d. Cytokin in s								
30.	Many daylily, dahlia, and gladiola varieties are polyploid, which means that they have more than one set of								
	a. zygotes								
	b.chromosomes								
	c.nuclei								
	d.scions								

31.	The pigment	produces orange-yellow flowers.
	a.carotene	
	b.chlorophyll	
	c.anthocyanin	
	d.xanthophyll	
32.	Which of the followin	g plant characteristics belongs to monocots?
	a.netted leaf veins	
	b.scattered vascular	b u n d le s
	c. flower parts in mul	tiples of four or five
	d.taproot system	
33.	What are four things	growing medium provides for plants?
	a.darkness, food, nut	rients, oxygen
	b.carbon dioxide, dis	ease resistance, sugars, water
	c.nutrients, oxygen, s	support, water
	d. vitam ins, organic n	n atter, support, water
34.	Most essential elemo	ents for plant growth are available to most plants when the soil
	a. 3.0 to 5.5	
	b.5.5 and 7.0	
	c. 7.0 to 10.5	
	d. 10.5 to 12.0	
35.	What is a miniature a	rachnid that sucks sap from plants?
	a.aphid	
	b.beetle	
	c. m ite	
	d. Nem atode	

- 36. Poinsettias are very susceptible to root rot diseases caused by Pythium, Rhizoctonia, and Thielaviopsis fungi. How can these disease problems be reduced?
  - a. Apply fungicides when appropriate and adhere to proper watering.
  - b. Introduce beneficial microorganisms to the greenhouse environment.
  - c. Provide cooler day temperatures and warm er night temperatures.
  - d. Use varieties genetically engineered to be resistant to root rot.
- 37. How are chrysanthem um s classified?
  - a.by response group, height, and flower form
  - b. by response group, speed of rooting, and flower texture
  - c.by root growth, height, and flower color
  - d. by root length, leaf size, and flower form
- 38. Why are Easter lilies a relatively difficult crop to grow?
  - a. Easter falls on a different date each year.
  - b. They are extremely sensitive to dry medium.
  - $c.\,Th\,ey\,are\,\,sh\,ort\text{-}d\,ay\,\,p\,lants\,\,g\,ro\,w\,n\,\,in\,\,th\,e\,\,sp\,rin\,g\,.$
  - d. They have so many pest and disease problems.
- 39. What is the best explanation why bedding plant seeds are sown in rows?
  - a.to ensure that developing seedlings have good light exposure
  - b.to keep different plant varieties from becoming intermingled
  - c.to maintain an organized, attractive seed germination room
  - d.to reduce the possible spread of disease across an entire flat
- 40. What are small plants grown in small amounts of medium in divided trays?
  - a. cormels
  - b.explants
  - c. liners
  - d.plugs

- 41. In pricing retail items, it is important to include additional hard good costs, which would include:
  - a. The floral foam and vase used to construct the arrangement
  - b. The flowers used to make the design
  - c. The filler used to complete the design
  - d. The gas used in the delivery vehicle
- 42. Fresh goods used to create a retail floral design are typically marked up from wholesale pricing at the following rate:
  - a. 10%
  - b.200%
  - c.50%
  - d.500%
- 43. As the wholesale price of fresh flowers increased due to supply issues, the resulting price affect was seen by consumers:
  - a. The price of delivery was decreased
  - b. The price of add-on purchased increased
  - c. The availability of flowers increased
  - d. The retail price of flowers increased
- 44. Which of the following floral products is a seasonal design specifically representing the fall harvest season?
  - a. An evergreen wreath with colorful ornaments
  - b. A bloom in g spring bulb in a vase
  - c. A sum m er bouquet of sun flowers
  - d. A cornucopia (horn of plenty) filled with flowers, fruit, and vegetables
- 45. How could a florist or garden shop offer products that promote a sustainable and environmentally conscientious perspective?
  - a. Offer organically grown plants
  - b. Sell organic fertilizers
  - $c.\,Market\,\,seas on al\, and\,\,local\,products$
  - d. All of the above.

e r

46.	In response to supply issues for fresh flowers from South America, the following result was by floral retailers in the wholesale cost of fresh goods:
	a. The price of hard goods decreased
	b. The price of flowers increased
	c. The price of flowers decreased
	d. The shipping costs decreased
47.	Which of the following products would be the best choice of tools / materials to adhere fresh flowers in constructing a wristlet corsage:
	a. Hot Glue
	b.Cold Glue
	c. Wire
	d. Braid in g
48.	Which life stage is most damaging to ornamental crops from the lepidoptera ord of insects?
	a. Adult

b. Larvae

c. Nym ph

nutrient:

a. Phosphorus

b. Potassium

d. Nitrogen

a. Xylem and phloem

or bark, which would damage the plants:

c. Zin c

b. Roots

c. Petals

d. Pith

d.Egg

49.

50.

When removing thorns from roses, it is important to avoid tearing the outer layer,

If a plant is showing a yellowing in the leaves, it is most likely deficient in the



## **FLORICULTURE CDE**

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## General Knowledge Exam Key

Question	Answer	Point Value	Standard	Standard	Standard
1.	а	4	PS.02.02.03.c		
2.	b	4	PS.03.05.04.b		
3.	b	4	PS.04.02.02.c		
4.	С	4	PS.03.02.05.c		
5.	b	4	PS.04.02.01.c		
6.	а	4	PS.04.02.01.c		
7.	а	4	PS.04.02.01.c		
8.	d	4	PS.04.02.02.c	CS.03.04.02.c	
9.	а	4	PS.04.02.01.c		
10.	а	4	PS.03.05.04.b		
11.	С	4	PS.03.02.06.b		
12.	b	4	PS.02.02.04.c	PS.02.03.01.c	
13.	d	4	PS.01.03.06.c	PS.01.03.01.c	
14.	С	4	PS.03.03.01.c	PS.01.03.06.c	PS.01.03.03.c
15.	а	4	PS.02.02.06.b		
16.	b	4	ABS.01.01.01.b	CS.02.02.03.b	CRP.03.02.01.a
17.	а	4	PS.02.02.04.c		
18.	d	4	BS.02.04.02.a	CS.03.01.01.c	CS.03.03.04.c
19.	b	4	BS.02.04.01.b	BS.02.04.02.a	CS.03.01.01.c
20.	а	4	PS.04.02.01.c	PS.04.02.02.c	





Question	Answer	Point Value	Standard	Standard	Standard
21.	b	4	PS.03.01.01.b		
22.	С	4	PS.02.03.02.c		
23.	а	4	BS.02.04.02.a	PS.03.03.04.b	CS.03.03.03.b
24.	d	4	PS.01.03.01.c		
25.	а	4	PS.02.03.01.c		
26.	b	4	NRS.01.02.02.b		
27.	d	4	PS.02.02.04.c		
28.	С	4	PS.01.01.01.c		
29.	d	4	PS02.02.03.c		
30.	b	4	NRS.01.02.02.b	55 S. S. S.	
31.	а	4	PS.02.02.05.c	55 S.S.S.	
32.	b	4	PS.02.02.05.c	5-5-5-5 	
33.	С	4	PS.01.02.01.c		
34.	b	4	PS.01.03.02.c		
35.	С	4	NRS.01.02.03.b		
36.	а	4	NRS.04.02.01.b		
37.	а	4	PS.02.02.05.c		
38.	а	4	PS.03.02.05.c		
39.	d	4	NRS.04.02.01.b		
40.	d	4	PS.03.02.05.c		
41.	а	4	ABS.01.01.01.b		
42.	b	4	ABS.01.01.01.b		
43.	d	4	ABS.01.01.01.b		
44.	d	4	CS.02.02.02.c		





Question	Answer	Point Value	Standard	Standard	Standard
45.	d	4	CS.03.01.01.c		
46.	b	4	CS.02.02.03.b		
47.	b	4	CS.03.04.02.c		
48.	b	4	PS.03.03.01.c		
49.	d	4	PS.01.03.06.c		
50.	а	4	PS.02.02.03.c		



