Q1W7- Test 1- Plant Structure and Function

Multiple Choice

Identi	fy the	e choice that best completes the statement o	r answer.	s the question.
	1.	Parallel veins in a leaf would indicate that	the plan	t is a
		a. dicotyledon	c.	perennial
		b. biennial	d.	monocotyledon
	2.	Which of the following is a characteristic	of mono	cots?
		a. alternating strands of xylem and phloe		
		b. xylem forms a star shape in the root c	ross secti	on
		c. woody stems with thick bark		
		d. vascular bundles of stem in cross sect	ion are in	a ring
	3.	The veins of a leaf contain the		
		a. apical meristem	c.	endodermis
		b. epidermis	d.	vascular tissue
	4.	Where does most photosynthesis take place	ce?	
		a. in the cells of the cortex	c.	in the palisade mesophyll
		b. in the spongy mesophyll	d.	in the stomata
	5.	What is the primary function of plant leav	es?	
		a. to support the plant	c.	to take in water
		b. to produce flowers	d.	to trap sunlight for photosynthesis
	6.	A plant is probably a dicot if it has		
		a. netted veins	c.	parallel veins
		b. one seed leaf within the seed	d.	flower parts in multiples of three
	7.	To control water loss, the size of the stom	ata is red	uced by the
		a. xylem	c.	cambium
		b. phloem	d.	guard cells
	8.	A plant that produces too little of the gibb	erellins n	night
		a. grow too tall		
		b. increase the rate of seed germination		
		c. develop many buds		
		d. not form flowers		
	9.	Which of the following is NOT a characte		
		a. the most abundant type of plant cell		thin, flexible cell walls
		b. thick, rigid cell walls	d.	large central vacuoles
	10.	The epidermal structures that control the	exchange	of gases are called
		a. mesophyll	c.	
		b. trichomes	d.	stomata
	11.	0 1	_	
		a. tracheids	c.	phloem
		b. guard cells	d.	xylem
	12.	<u> </u>	ınd in xy	lem tissue?
		a. sieve tube members	c.	1
		b. tracheids	d.	guard cells
	13.	The produces new xylem and phloe	em cells i	n the stems and roots.
		a. epidermis	c.	apical meristem
		b. endodermis	d.	vascular cambium

 14.	The plant hormone, auxin, is produced in the _		of a growing plant.		
	a. leaves	c.	branches		
	b. vascular tissue	d.	apical meristem		
 15.	15. A plant's response to an external stimulus that comes from a particular direction is called				
	a. tropism	c.	flowering		
	b. nastic response	d.	cell division		
 16.	Guard cells close the to prevent excess water loss.				
	a. stomata	c.	epidermis		
	b. trichomes	d.	collenchyma		

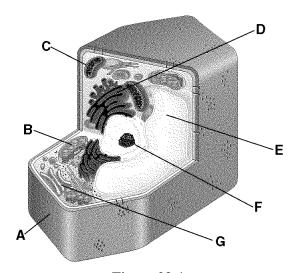


Figure 23-1

 17.	Which structure shown in Figure 23-1 is not found in animal cells?		
	a. A	c.	D
	b. C	d.	F
 18. What is the purpose of structure B in Figure 23-1?			
	a. powerhouse of the cell	c.	generating food
	b. making ribosomes	d.	waste management
 19.	Part A of the cell in Figure 23-1 is very flexible in a particular cell. What type of cell is it?		
	a. parenchyma	c.	sclerenchyma
	b. collenchyma	d.	stomata

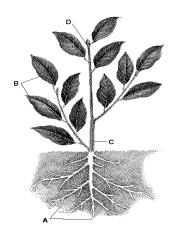


Figure 23-2

20. What structure shown in Figure 23-2 produces sugars?

a. A

c. C

b. B

d. D

21. Where is most of the vascular tissue found in Figure 23-2?

a. A

c. C

b. E

d. D

22. Which structure shown in Figure 23-2 demonstrates negative gravitropism?

a. A

c. C

b. E

d. D

23. Which structure shown in Figure 23-2 has the greatest percentage of dermal cells?

a. A

c. (

b. B

d. D

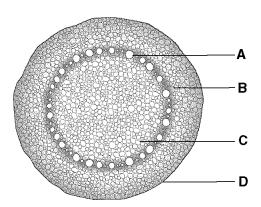


Figure 23-3

24. What type of cells are found at section C of Figure 23-3?

a. collenchyma

c. sclerenchyma

b. parenchyma

d. stomata

25. What is transported by section A of Figure 23-3?

a. sugar

c. water

b. heat

d. waste

26. What is transported by section B of Figure 23-3?

- a. sugar
- b. heat

- c. water
- d. waste
- 27. Where is this type of tissue located?
 - a. at the surface
 - b. in the ground

- c. inside the leaf
- d. inside a seed

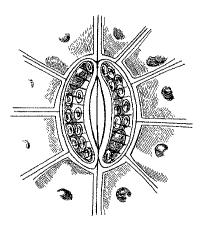


Figure 23-4

- 28. What are the organelles shown in the guard cells shown in Figure 23-4?
 - a. stomata

c. ribosomes

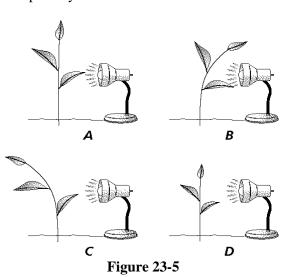
b. mitochondria

- d. chloroplasts
- 29. What is the purpose of the structure shown in Figure 23-4?
 - a. transpiration

c. water transport

b. photosynthesis

d. waste removal



- 30. Which picture shown in Figure 23-5 is the most likely outcome?
 - a. A

c. C

b. B

d. D
