	Ch	13 Stephen Mastigl
	Ь	1400 (91) A
3)	5	(41)I
4)	0	(1) K
3	0	43) G 44) C
	D	45) B
3	A	96) D' mezezoù phylum meristematic
RO	A	11/1 A Metchalphylen
lí)	D.	10 E-rost cap
12)	0	79) eloniation phylem
13)	1	50) soot haiss
15)	A of	(0) 53) The picture on page t is right side up, You can tell because the stoma and sound cells are on the
16)	B	bottem. That and the merophyll with a lot of
17)	A.	chlorophyll is on the top.
18)	C .	1 /11 /4 5/1 /45
19)	B -	
36)	R	
72)	B.	
24)	14.4	
25)	A.	
26)	D .	
277	0.	
78	D.	
76)	0	
3)	(
A	P	
35	F	
34)	k	
36)	H	
31)	7	
34)	D	

Test 13

Biology

Chapter 13

Page 1

Multiple Choice	2 pts
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B. leaves.

Read the entire item before selecting your answer. Only one letter is correct. Write the letter of your choice in the blank beside the number.

1. Flo	wering plants belong to the phylum		
A.	Dicotyledoneae.	C.	Anthocerophyta.
B.	Anthophyta.	D.	Coniferophyta.
(2.)A s	stolon is a modified		
A.	root.	C.	leaf.
B.	stem.	D.	flower.
3. The	e sporophyte in the moss is the		
A.	egg and sperm.	C.	protonema.
B.	stalk and capsule.	D.	leafy shoot.
4. Wh	tree exhibits dominance and l	h are	less dominant than the apical bud, branching pattern.
A.	apical/deliquescent	C.	primary/columnar
B.	superior/deliquescent	D.	apical/excurrent
5. A t	iny heart-shaped structure that grows	s from	m a fern spore is the
A.	sporangium.	C.	sporangiophore.
B.	protonema.	D.	prothallus.
6. In p	plants, a mature ovary is called a		
A.	cotyledon.	C.	thallus.
B.	flower.	D.	fruit.
7. A tı	ree that loses its leaves in autumn is	said	to be
A.	herbaceous.	C.	annual.
B.	succulent.	D.	deciduous.
8. The	prominent generation in the fern is	the	
A.	sporophyte.	C.	prothallus.
B.	gametophyte.	D.	sorus.
9. The	edible structure of a white potato is	a	
A.	root.	C.	bulb.
B.	rhizome.	D.	tuber.
10. The	one characteristic possessed only by production of	me:	mbers of the phylum Anthophyta i
A.	seeds.	C.	true roots.

D. flowers.

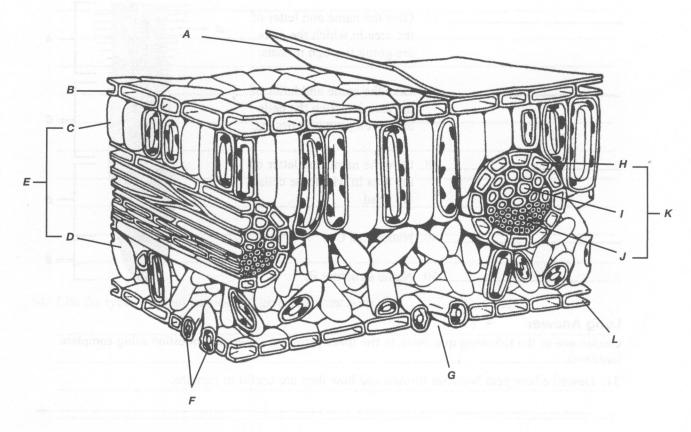
1	1. Mo	nocots and dicots are large groups of	of	
	A.	ferns.	C. D.	mosses. flowering plants.
1/	В.			as a substant as a few and a substant D
12		ertain plant produces flowers with t tiples of three. The plant is most like		
	A.	dicot.		gametophyte.
	В.	gymnosperm.	D.	monocot.
1	3. Mai	ny people decorate a member of thi	s phy	lum for Christmas.
	A.	Lycophyta	C.	Coniferophyta
	B.	Anthophyta	D.	Hepatophyta
1-	4. A p	lant that grows year after year is		
	A.	an annual plant.	C.	a perennial plant.
	B.	a biennial plant.	D.	a herbaceous plant.
1	5. Tiss	sues for conducting water and disso	lved	substances are
	A.	cambium tissues.	C.	vascular tissues.
	B.	meristematic tissues.	D.	parenchyma tissues.
1	6. Cel	ls that are undergoing continuous n	nitosis	s are usually found in
	A.	vascular tissue.	C.	secondary tissue.
	B.	meristematic tissue.	D.	structural tissue.
1	7. A l	eaf in which the blade is divided in	to mo	re than one part is said to be
	A.	compound.	C.	palmate.
	B.	pinnate.	D.	netted.
1	8. The	e pine tree releases male reproductiv	ve gai	metes contained in the
	A.	seed cone.	C.	pollen.
	B.	sorus.	D.	antheridium.
1	9. The	e stalk portion of a leaf is called the	od) :	
	A.	blade.	C.	tendril.
	B.	petiole.	D.	stipule.
2	20. The	e "fuzziness" of certain leaf surface	s is d	ue to the presence of
	· A.	stickers.	C.	epidermal hairs.
	B.	guard hairs.	D.	venation.

	1.) Wł	nich of the following is a character	eristic fo	ound in leaves that float in water?
The College	A.	very small leaves to retard tran	spiration	i de la
	B.	stomata on upper surfaces only	olong of	
	C.	absence of veins		
	D.	absence of palisade cells		
2	2. Ha	rd, dark, inactive wood is called		
	A.	sapwood.	C.	springwood.
	B.	heartwood.	D.	tannin.
2	3. A s Wh	eed sprouts and produces a root at type of root system does it has	that conve?	tinues to grow as the predominant root.
	A.	taproot	C.	fibrous root
	B.	adventitious root	D.	prop root
2	4. Prii	mary growth in a root		
	A.	increases the length of the root.		
	B.	forms secondary xylem and ph		
	C.	originates at the vascular cambi		
	D.	increases the diameter of the ro	ot.	
2:	5. A s	torage tissue in roots, such as in	a carrot,	is the
	A.	cortex.	C.	epidermis.
	B.	xylem.	D.	
20	6. Sec	ondary xylem and phloem are pr	oduced	by the
	A.	cork cambium.	C.	meristematic region.
	B.	apical pericycle.	D.	vascular cambium.
27	7. Hor	setails, club mosses, and whisk f	erns are	all
	A.	vascular with seeds.	C.	vascular and seedless.
	В.	avascular with seeds.	D.	avascular and seedless.
28	3. One	e can often determine the age of a	a twig by	
	A.	leaf scars.	C.	lenticels.
	B.	bundle scars.	D.	bud scale scars.
29	9. Wh	ich phylum do ferns belong in?		
	A.	Bryophyta	C.	Pteridophyta
	В.	Anthophyta	D.	Coniferophyta

30.	Stor	mata are beneficial to the leaf because	e the	ey answelled odd to dod M/ 15 January
	A. B. C. D.	carry on the process of photosynthe form a waxy substance to protect the help carry water and dissolved food regulate the exchange of gases.	ie lea	
31.		changing weather conditions an oak ermined by making which of the following		
	 A. heartwood compared to sapwood B. hardwood compared to softwood C. springwood compared to summerwood D. bud scale scars compared to bundle scars 			
32.	Mos	st of the content of the sap in the phl	oem	is water and
	A. B.	mineral ions. sugars.	C. D.	amino acids. proteins.
	ter o	1 p+ f the term with the description. Write used more than once.	the	letter in the blank beside the number.
	A.	abscission layer	G.	palisade
	B.	cuticle	H.	parallel
	C.	flower	I.	prop
	D.	guard cells	J.	root
	E.	anthocynin	K.	root hairs
	F.	leaf	L.	vine
33.	chie	ef photosynthetic structure of seed pl	ants	
34.	incı	reases absorptive area of epidermis		
(35.	non	aclimbing adventitious roots		
36.	type	e of leaf venation in monocots		
37.	fori	med across the base of the petiole be	fore	the leaf falls in autumn
(38.	clin	mbing roots		
39.	wax	xy covering of epidermis on leaves		
40.	sur	rounds a stoma		

Matching 2 3 pts

The following questions refer to the diagram below. Write the letter of the answer in the blank beside the number. Answers may be used only once.



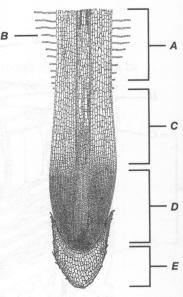
- 41. What letter indicates the xylem?
- 42. What letter indicates the entire vein?
- 43. What letter indicates a stoma?
- 44. Give the letter of the structure that contains the highest amount of chlorophyll.
- 45. Give the letter of the structure from which epidermal hairs (though not illustrated on the diagram) would grow.

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Short Answer 3 pts

The following questions refer to the diagram on the right. Read each question carefully. Write your answer in the blank provided.

- ____ 46. Give the name and letter of the area in which the cells are going through mitosis.
 - 47. Give the name and letter of the area in which the cells are developing into tissues.
 - _ 48. Give the name and letter of the area in which the cells are dead.
 - 49. Name area C.
 - _ 50. Name structure B.



Long Answer



Choose one of the following questions. In the space provided answer the question using complete sentences.

51. Describe how peat bogs are formed and how they are useful to humans.

The first obvious fraction of sect plants

Light and accords from the first term of sect plants

Light and according to the first term of sections and according to the first term of the first

52. What can scientists learn from looking at the cross section of a woody stem?