PLANTS FINAL EXAM review

MC	ONOCOTS- draw answers if you like
1)	Describe the flower petal arrangement
2)	Describe the veins on the leaves
3)	Describe vascular tissue in the stem
4)	Describe the seeds
	COTS- draw answers if you like
	Describe the flower petal arrangement
6)	Describe the veins on the leaves
7)	Describe vascular tissue in the stem
8)	Describe the seeds
IМ	PORTANCE OF NITROGEN
	Why is NITROGEN so important to a plant?
10)	What organic molecule can a plant make with NITROGEN?
11)	How does a plant get its NITROGEN?
12)	Where is NITROGEN found?
13)	What would happen if a plant could not get nitrogen? (don't just say it would die)
14) 15) 16) 17) 18) 19)	Name 3 plants that are nonvascular
21) 22) 23) 24)	Herbaceous stems are The veins of a leaf contain and (vascular tissue) In a flower, petals function to pollinators Flowering plants, such as apple trees and daisies, are classified as Cycads, conifers, gnetophytes, and ginkgoes are Plants that have specialized tissues for carrying minerals, water, or food are classified as plants.

26) Chloropiasts are	e that contain emorophyn.
	the cuticle on a plant is to
28) The cell wall fu	nction is
29) Plants reproduc	e with sex cells called and
	reproduce without sex cells. This is reproduction
_	s life cycle, a sporophyte releases
32) Two groups into	o which all plants are divided are and
	ants move needed materials from one part of the plant to another by
•	move needed materials from one part of the plant to another by and
always	s and liverworts lack a vascular system, they usually live in places that are
plant in place.	t has slender, hairlike threads of cells called that help hold the
	s life cycle, sperm cells are carried to the egg by
38) Which group of	plants produces spores in spore cases on the underside of its leaves?
	gymnosperms consists of evergreens with needle-shaped leaves?
	uce by means of
	egg is fertilized, it develops into a seed within the cone
, ,	s produce what structure?
	is a seed leaf found inside a seed.
	stage of a fern is a tiny plant that produces eggs and sperm.
(sporophyte or g	
	nderground stem called a
	is the green pigment in plants that absorbs light energy from the sun.
	is the process by which plants use light energy from the sun to make
food molecules.	
	enters a leaf through
49) The transfer of 1	pollen to stigma is called
	consists of one main root that grows downward, with many smaller
branch roots co	
51) A	root system has several roots of the same size that spread out from
the base of the s	stem.
52) Seedless vascul	ar plants help to form
STRUCTURE A	AND FUNCTION OF PLANT PARTS
53) Fill in the table	with all the parts of a leaf and what their functions are: (12pts)
Structure Structure	What is its function?
Cuticle	
Upper Epidermis	
Palisade tissue	
Spongy tissue	
Stomata Stomata	
Guard Cell	
Juara CCII	

54) Fill in the table with all the parts of a root and what their functions are: (10pts)

Cell type/ substance	What is its function?
Root cap	
xylem	
phloem	
Root hairs	

55) Fill in the table with all the parts of a flower and what their functions are (18pts)

Cell type/ substance	What is its function?
Pistil	
ovary	
stamen	
petal	
sepal	

56) Fill in the table with all the parts of a seed and what their functions are: (6pts)

Cell type/ substance	What is its function?
Seed coat	
cotyledon	
embryo	

- 57) Which of the following is NOT a true statement about leaves?
 - a. Leaves are part of a plant's root system.
 - b. Guard cells open and close pores in the leaf's epidermis.
 - c. Their veins contain phloem that transports sugar.
 - d. Photosynthesis occurs in cells in the palisade layer.
- 58) Which statement does NOT correctly describe plants?
 - a. Plants make their own food.
 - b. Plants have a cuticle.
 - c. Plant cells do not have cell walls.
 - d. Plants reproduce with spores and sex cells.
- 59) Which of the following statements does NOT correctly describe mosses and liverworts?
 - a. Mosses and liverworts form a thin layer of soil in which new plants can grow when they die.
 - b. Mosses and liverworts help reduce soil erosion.
 - c. Mosses and liverworts are usually the first plants to inhabit a new, bare environment.
 - d. Mosses and liverworts produce spores in spore cases on the underside of fronds.
- 60) How do mosses and club mosses differ?
 - a. Mosses do not produce spores but club mosses do.
 - b. Club mosses do not produce spores but mosses do.
 - c. Mosses have vascular tissue but club mosses do not.
 - d. Club mosses have vascular tissue but mosses do not.

ESSAY. 61) What are two differences between a seed and a spore? 62) Imagine that a seed and a spore are beginning to grow in a deep, dark crack in a rock. Which reproductive structure—the seed or the spore—is more likely to survive and develop into an adult plant after it begins to grow? Explain your answer. 63) If plants did not possess a cuticle, where would they have to live? Why? 64) How is water important to the reproduction of mosses and ferns? 65) Which plant group is more important to people, angiosperms or gymnosperms? Why? 66) Describe the ecological importance of mosses and liverworts. 67) What's the difference between a rhizoid and a rhizome? 68) How is a plant's size related to its method of transporting water and nutrients? 69) In what ways are fruits adaptations that help angiosperms reproduce? 70) What is the difference between tissue and cells?

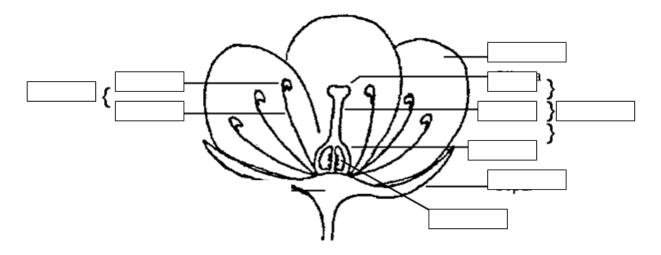
CHAPTER 5

72) Describe how a plant fertilizes itself

71) How could you tell a stem came from a woody plant?

73) Describe how a plant gets fertilized by a different plant

74) Label the parts of a flower:



75) What is the formula for photosynthesis?			
76) Through what structure do plants do transpiration?			
77) What is the definition of a fruit?			
78) What is it called when a seed sprouts? 79) If a seed is not germinating, but just "sleeping" waiting to sprout, this is called?			
81) How is a runner different from a rhizome?			
84) Trees that lose their leaves to conserve water are called?			

85) Trees that keep their leaves year round are called? _____