Name		
Date	Hour	



Plant and Soil Science

Multiple Choice

	_							
Choose	the	answer	that h	est	completes	each	statement	or auestion

 1.	What levels of classification give plants individual scientific names?
	A. kingdom and classB. division and classC. order and familyD. genus and species
 2.	The individual scientific name of a plant is also called its
	A. common nameB. botanical nameC. English nameD. commercial name
 3.	Plants that complete their entire life cycle, including reproduction, within one growing season are
	A. simple plantsB. annual plantsC. biennial plantsD. perennial plants
 4.	Plants that need two growing seasons to complete their life cycle are
	A. complex plantsB. annual plantsC. biennial plantsD. perennial plants
 5.	Plants that grow season after season are
	A. complex plants B. annual plants

- C. biennial plants
- D. perennial plants

Plants that lose their leaves during the dormant period are called
A. evergreens
B. deciduous
C. biennial
D. perennial
5. perenna.
How many seed leaves does a dicot plant have?
A. one
B. two
C. three
D. four
How many seed leaves does a monocot plant have?
A. one
B. two
C. three
D. four
Plants lose water via openings in the skin of the leaf through a process called
A. respiration
B. transpiration
C. photosynthesis
D. perspiration
The plant uses oxygen taken in through the leaves and water from the roots to convert the
stored sugar into usable energy through a process called
A. respiration
B. transpiration
C. photosynthesis
D. perspiration
The process of food production is called
A. respiration
B. transpiration
C. photosynthesis
D. perspiration

 12. W	hat part of a plant contains chlorophyll?
A	. roots
B.	seed
	leaves
	. stem
0.	. seen.
 13. A	plant's structure consists mostly of
A	. water
B.	xylem cells
	phloem cells
	epidermal cells
 14. Th	ne carbon dioxide that plants use in photosynthesis comes from
A	. air
B.	soil
C.	water
D.	stored reserves
 15. M	ost agricultural plants prefer a temperature between
A	. 40 and 70° F
B.	50 and 80° F
	60 and 90° F
	. 70 and 100° F
	which organic media has high water and nutrient retention capabilities and is commonly sed in commercial greenhouses?
Δ	. peat moss
	pine bark
	·
	compost
D.	. sawdust
17 W	hich organic media absorbs nutrients and releases them slowly, decomposes slowly, and is
	ten used by nurseries?
А	. peat moss
	pine bark
	compost
	. sawdust
U.	. sawuust

18.	Which inorganic media is simply volcanic rock that has been crushed and heated to 1800° F.?
	A. perliteB. sphagnumC. vermiculiteD. sediment
19.	Which inorganic media is a heated mica compound and is used to improve moisture retention?
	A. perliteB. sphagnumC. vermiculiteD. sediment
20.	Which inorganic media is used to improve aeration in growth media but also lacks ability to hold nutrients?
	A. perliteB. sphagnumC. vermiculiteD. sediment
21.	Which soil particle feels gritty and allows water to drain through the soil quickly?
	A. sandB. siltC. clayD. loam
22.	Which soil particle feels powdery to the touch?
	A. sand B. silt C. clay D. loam
23.	Which soil particle does not allow water to penetrate or drain well?
	A. sand B. silt C. clay

D. loam

24.	When using the textural triangle, a soil that has 20% clay and 30% sand would havesilt
	A. 20% B. 30% C. 50% D. 70%
25.	For ideal plant growing conditions, the soil would have
	A. no air and some waterB. more water than airC. more air than waterD. about equal amounts of air and water
Matching Match each t	term with its definition.
A. sand B. silt C. clay	
D. parent m E. organic r	
26.	soil particle that holds water and nutrients in the soil well
27.	component in soil made of decaying material from living organisms
28.	soil particle that is the smallest; less than 0.002 millimeters in diameter
29.	soil particle that is the largest; between 0.05 and 2.0 millimeters in diameter
30.	original matter from which soil particles are formed

Short Answer

31.	What are the five factors that affect soil formation?						
32.	Why is it important for builders to understand soil properties when they design and construct buildings?						
22							
33.	What is the most important layer or natural soil for plant production?						