Name/100	Name	Score	/100 =	%
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Quiz 15 Plant Propagation

There might be more than one correct answer to the multiple-choice questions. Please <u>circle all</u> the answers that apply. Before each letter chosen, indicate the page or pages where the answer was found.

1.	Write (T)	True or (F) False next to each statement. (5 points)
		Two factors shorten seed life: high moisture and low temperatures.
		All open-pollinated cultivars are considered heirlooms.
		For germination to occur, seeds must be physically and physiologically ready to break dormancy.
		In mechanical scarification a seed is filed with a metal file, nicked with a knife, cracked with a hammer, or rubbed with sandpaper to weaken the coat so water can enter and begin the germination process.
		Because germinating media mixes have little fertilizer, seedlings must be watered with a diluted fertilizer solution soon after they emerge.
2.	The ideal	characteristics of a germinating medium are: (5 points)
	A	
	В	
	С	
	D	
	Е	
3.	What is "h	ardening" plants? (5 points)

4.	List the princ	iple methods of	asexual plant	propagation.	(5points)
	Bibt the prine	ipie meenoab oi	abomaan prame	propagation	(opome)

Write ('	Г) True o	: (F) False 1	next to each st	atement.	(5 poir	nts)		
	Stem	cuttings ar	e not widely u	sed and not	an import	ant type o	f cutting.	
	Remo	ve flowers	and flower bu	ds from ste	m cuttings			
	Турі	al softwoo	d stem tip cutt	ings tend to	root in 2 t	o 5 weeks	5.	
			ngs of deciduo tative propaga	-	re one of tl	he least ex	xpensive, easi	est
		-	avoid taking	root cutting	s when the	e parent pl	lant is actively	1
	prod	icing new s	shoots.					
Use tab	-		hoots. hod of propag	ation for im	patiens. (5	points)		
Use tab	-			ation for im	patiens. (5	5 points)		
	le 5.3 to f	nd the met			patiens. (5	points)		
 Fill in th	le 5.3 to f	nd the met	hod of propag	s. (5 p	points)		 w above the g	roı
 Fill in th A	le 5.3 to f	nd the met	hod of propag	s. (5 p _ are horiz	points) ontal stem	s that grow		
Fill in th A B	he blanks	nd the met	hod of propag	s. (5 g are horiz are horiz	ooints) ontal stem ontal stem	s that grov	w below the g	

8. Choose the letter that corresponds with each number. (5 points)

Runner	 A. A solid stem structure with distinct nodes and internodes
Offsets	 B. Can form asexually beside the originally planted
Bulbs	 parent
Corms	 C. Thickened underground fleshy structures that
Tuberous stems and roots	contain stored food and may produce new roots, shoots, and plants.
	 D. Plants with rosetted stems often reproduce by forming new shoots at their base or in leaf axils.
	E. Plantlets at tips may be rooted while still attached

to the plant.

- 9. Write (T) True or (F) False next to each statement. (5 points)
 - A. _____ Plants with more than 1 rooted crown may be separated and the crowns planted separately.
 - B. _____ Division requires plant parts to be cut into sections for propagation.
 - C. _____ Germinating and transferring are methods of asexual plant propagation that join plant parts so they will grow as one plant.
 - D. _____ Budding involves removing a bud or small piece of bark from the scion and grafting it onto root stock.
 - E. _____ Budding and grafting techniques are used to propagate cultivars that do not reproduce well by cuttings, or other sexual methods-or whose own root systems are inadequate.

The following questions can be answered from the PowerPoint presentation or the Handbook.

- 10. Write (T) True or (F) False next to each statement regarding seed (sexual propagation). (5 points)
 - A. _____ Seeds comprise three parts: the outer seed coat, the endosperm, and the embryo.
 - B. _____ Seed life can be shortened by low moisture and low temperature storage conditions.
 - C. _____ Open-pollinated seeds may help maintain genetic diversity within a species.
 - D. _____ All seeds need to be scarified to germinate.
 - E. _____ Seeds that do not germinate quickly tend to be prone to disease problems.

11. What may cause problems with seed viability: <u>List 5</u>	(5 points)
A	
В	
С	
D	
E	

12. Write (T) True or (F) False next to each statement regarding cuttings and division (asexual propagation). (5 points)

- A. _____ It is useful for plants that may have complex seed dormancy problems.
- B. _____ It is the best way to produce cultivars that closely resemble the parent plant.
- C. _____ In some cases, this method of reproduction may produce a smaller plant or a plant that blooms late.
- D. _____ This method may transmit viruses.
- E. _____ It may require use of hormones for difficult to root plants.