Name	Class	Date	
Skills Worksheet			

Test Prep Pretest

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question. 1. Although Linnaeus used the Latin polynomial system in his books, he created his own a. rules of grammar. b. taxonomic categories. c. evolutionary systematics. d. two-word shorthand system, also in Latin. 2. Scientists classify organisms by studying their forms and a. structures. c. method of reproduction. b. size. d. cladograms. 3. Cladograms determine evolutionary relationships between organisms by examining a. the strength of a character. b. the degree of difference between organisms. c. shared ancestral characters. d. shared derived characters. 4. All members of the kingdom Animalia are multicellular a. autotrophs whose cells have walls. b. heterotrophs whose cells have walls. c. heterotrophs whose cells lack walls. d. autotrophs whose cells lack walls. 5. Plant cells have cell walls composed of which of the following? a. cellulose c. silica b. chitin d. peptidoglycan 6. The characteristics that scientists use in cladistics are a. analogous structures. c. convergent structures. b. shared derived characters. d. shared homologous traits 7. Scientific names a. must have three Latin words and correct Latin grammar. b. include the genus and family. c. have rules established by British and American biologists.

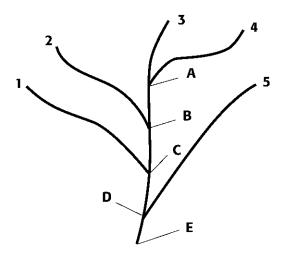
d. enable biologists to communicate regardless of their native language.

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a. ho	wings and insect wing mologous traits. rived traits.	c	. analogous traits phylogenetic traits.		
desce a. do b. kir c. kir	nding order? main, kingdom, phylu ngdom, domain, phylu ngdom, phylum, famil	ım, class, o ım, order, y, class, d	order, family, genus, species class, family, genus, species omain, order, genus, species order, family, genus, species		
a. bob. thec. the	cientific naming system th words should be und e genus is to be capital e species should be the e genus is never abbre	nderlined of lized. e second w			
Complete each statement by writing the correct term or phrase in the space provided.					
11. The only dor	main that includes mu	lticellular	organisms is		
	gdoms in which all me		heterotrophs are		
_	system developed by	Linnaeus i	s called		
14. One genus ca	an include several				
			re a recent common ancestor are		
			groups that are related by descent		
	e ancestral lineage.		-		
17. The evolutio	nary history of a spec	ies is calle	ed its		

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18. Which classification	nd write your answer in the system would probably known plants? Explain.	he space provided. y be used first if a scientist	t
19. List the six kingdo are prokaryotic or		the organisms in each kin	gdom
Questions 20 and 21 re which shows a phylog kingdoms.	efer to the figure at right, enetic tree of the six	Animalia Plantae	Fungi
20. Explain why the ki is located on the br	ngdom Archaebacteria ranch of the tree that ms Protista, Animalia,	Protista Eubacteria Archaebacteria	
21. Does the phylogen	etic tree separate prokary	votes from eukaryotes? Exp	 plain.

Test Prep Pretest continued

Questions 22–25 refer to the figure below. The phylogenetic tree shown indicates the evolutionary relationships for a hypothetical group of modern organisms, labeled 1-5, and their ancestors, labeled A-E.



- 22. Which two modern organisms are likely to be most closely related?
- 23. What was the most recent common ancestor of the organisms labeled *I* and *5*?
- 24. Which two modern organisms are likely to be most distantly related?
- 25. What was the most recent common ancestor of the organisms labeled *1* and *2*?