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Chapter 2: Biological Diversity, Bacteria, and Archaea

MULTIPLE CHOICE

1. The science of biological classification is u						
THE SCIENCE OF DIOLOGICAL CLASSIFICATION IS IN						

- a. predict an organism's future evolution.
- b. decide when an organism died.
- c. show relationships among organisms.
- d. decipher an organism's DNA.

ANS: C REF: 2.1 OBJ: A1 DIF: Easy

MSC: Factual

2. At the base of the evolutionary tree of all life is the

a. universal ancestor. c. derived ancestor. b. convergent ancestor. d. descended ancestor.

ANS: A OBJ: A1 REF: 2.1 DIF: Easy

MSC: Factual

3. Convergence is an evolutionary process that produces similar but not shared derived traits in organisms having common life histories but not common ancestors; which of the pairs of features is not convergent?

- the caudal fins of the whale and shark
- b. the opposable thumbs of the human and panda
- c. the hands of the chimpanzee and human
- the wings of the bat and bird

ANS: C DIF: Difficult **REF: 2.1** OBJ: A1

MSC: Conceptual

4. Which of the following events occurred between each branch on an evolutionary tree?

- a. the evolution of a new derived feature
- b. the loss of a derived feature
- c. the evolution of a shared ancestral feature
- the evolution of a convergent feature

ANS: A DIF: Difficult REF: 2.1 OBJ: A1

MSC: Factual

5. The following numbered sets of characters each represent a distinct group of organisms:

- 1. three toes per foot, feathers, cold-blooded, no finger adaptations
- 2. three toes per foot, body hair, warm-blooded, opposable thumbs
- 3. three toes per foot, feathers, warm-blooded, no finger adaptations
- 4. three toes per foot, body hair, warm-blooded, no finger adaptations

Which of the following choices is the most likely to represent the order in which these groups would appear on an evolutionary tree, from oldest to youngest group? (Hint: the more primitive characters are cold-bloodedness, feathers, and no finger adaptations.)

1, 2, 3, 4 c. 1, 3, 4, 2

b. 4, 2, 3, 1 d. 2, 1, 4, 3

REF: 2.1 OBJ: A1 ANS: C DIF: Difficult

MSC: Conceptual 6. Evolutionary tree diagrams representing the relationships between various organisms can be drawn only when those organisms share a a. common cellular metabolism. c. common cellular organization. b. distinct lineage. d. common ancestor. ANS: D DIF: Easy REF: 2.1 OBJ: A2 MSC: Applied 7. Evolutionary trees are based on the principle of convergent evolution. b. a set of shared characteristics believed to have arisen in a common ancestor. c. similarities in the function of a characteristic or trait. d. consensus among biologists regarding the usefulness of particular traits. ANS: B DIF: Easy REF: 2.1 OBJ: A2 MSC: Factual 8. What single feature, shared by all organisms, allows scientists to reliably compare distantly related

living or recently extinct organisms?

a. most recent common ancestor c. most recent common lineage

b. universal ancestor d. DNA

ANS: D REF: 2.1 DIF: Easy OBJ: A2

MSC: Factual

9. The current classification system used by biologists is

a. complex and unchanging.

b. universally accepted by all biologists.

c. based on four generalized types of living organisms: the Bacteria, the Archaea, the Eukarya, and the Protista.

d. updated and revised whenever new information becomes available.

DIF: Medium REF: 2.1 OBJ: A2 ANS: D

MSC: Factual

10. In order to determine relationships among different organisms scientists would examine

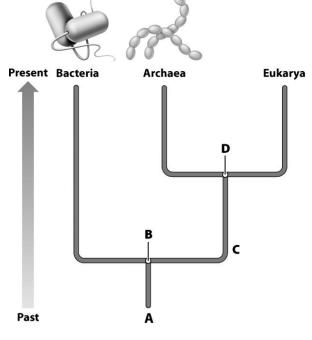
a. DNA. c. body structures.

b. behavior. d. all of the above

REF: 2.1 ANS: D DIF: Medium OBJ: A2

MSC: Factual

11. The diagram below is an evolutionary tree showing the relationship between the three domains. Which letter represents the most recent common ancestor of the Archaea and Eukarya?



a. A b. B c. C

d. D

ANS: D

DIF: Medium

REF: 2.1

OBJ: A2

MSC: Factual

- 12. Any two groups of organisms will have
 - a. 2 most recent common ancestors.
 - b. no more than 4 most recent common ancestors.
 - c. only 1 most recent common ancestor.
 - d. as many as 16 most recent common ancestors.

ANS: C

MSC: Applied

DIF: Medium REF: 2.1 OBJ: A2

13. All of the following sources of information except ____ can be used to construct evolutionary trees.

a. habitat preferences

c. instinctive behavior

b. body form

d. learned behaviors

ANS: D

REF: 2.1

OBJ: A2

MSC: Applied

- 14. A set of shared derived features
 - a. will be unique to each Linnaean taxon.
 - b. marks a group of species as a set of close relatives.
 - c. most often indicates convergences.
 - d. can be found only in humans.

ANS: B

DIF: Medium

DIF: Medium

REF: 2.1

OBJ: A2

MSC: Factual

- 15. DNA analysis has become a useful tool for understanding the relationships between organisms because
 - a. shared characteristics are usually the products of shared genes.
 - b. DNA is used by all organisms to collect energy.

c. only mammals have DNA.

d. knowing the DNA codes means biologists no longer have to use taxonomy.

ANS: A DIF: Medium REF: 2.1 OBJ: A2

MSC: Factual

16. The emergence of each new branch on the evolutionary tree represents

- a. the addition of a new Linnaean taxon within that lineage.
- b. the completion of a generation for that particular organism.
- c. the introduction of the most important features of a group.
- d. a common ancestor and the introduction of a new shared derived feature.

ANS: D DIF: Medium REF: 2.1 OBJ: A2

MSC: Conceptual

- 17. To produce an evolutionary tree it is necessary to first determine
 - a. which organisms are the oldest.
 - b. the full DNA sequence of each organism that will be included within the tree.
 - c. the shared derived features present within each group of organisms.
 - d. the number of lineages in each group.

ANS: C DIF: Medium REF: 2.1 OBJ: A2

MSC: Applied

- 18. Descendant organisms
 - a. do not share any features with their descendants.
 - b. have all the same features as their descendants.
 - c. share some features with their ancestors.
 - d. do not have features their ancestors lacked.

ANS: C DIF: Difficult REF: 2.1 OBJ: A2

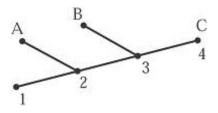
MSC: Conceptual

- 19. The organisms most distant from the base of an evolutionary tree are
 - a. unrelated to the organisms separated by one or more branch points.
 - b. less primitive than the organisms lower on the tree.
 - c. those that have evolved most recently.
 - d. chronologically older than the organisms lower on the tree.

ANS: C DIF: Difficult REF: 2.1 OBJ: A2

MSC: Applied

20. Examine the evolutionary tree pictured below.



In this evolutionary tree, which number represents the most recent common ancestor of A, B, and C?

a. 1

c. 3

b. 2

d. 4

ANS: B

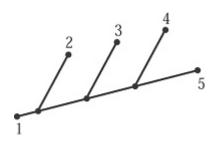
DIF: Difficult

REF: 2.1

OBJ: A2

MSC: Conceptual

21. Examine the evolutionary tree pictured below.



In this evolutionary tree, which groups of organisms are likely to share the most behaviors?

a. 5 and 4

c. 5 and 2

b. 5 and 3

d. 5 and 1

ANS: A

DIF: Difficult

REF: 2.1

OBJ: A2

MSC: Conceptual

22. With the exception of the _____ the following kingdoms are placed within the domain Eukarya.

a. Protista

c. Bacteria

b. Plantae

d. Fungi

ANS: C

DIF: Easy

REF: 2.1

OBJ: A3

MSC: Factual

23. Which of the following is a kingdom?

a. Bacteria

c. Plantae

b. Eukarya

d. Archaea

ANS: C

REF: 2.1

OBJ: A3

MSC: Factual

24. Evolutionary trees have been successfully used to

- a. identify which multicellular species are most closely related to humans.
- b. explain how evolution works.
- c. explain why most carnivorous mammals have four or five toes.
- d. explain the potential impact of global climate change.

DIF: Easy

ANS: A

DIF: Medium

REF: 2.1

OBJ: A4

MSC: Applied

25. Which of the following is *not* one of the three primary methods used to classify organisms?

a. the Linnaean hierarchy

c. domains

b. the Darwinian hierarchy

d. an evolutionary tree

ANS: B

DIF: Easy REF: 2.2

OBJ: A3

MSC: Factual

26. Which of the following pairs of kingdoms would be included exclusively in the domain Eukarya?

a. Plantae and Bacteria

c. Animalia and Fungi

b. Animalia and Archaea

d. Protista and Bacteria

ANS: C

DIF: Easy

REF: 2.2

OBJ: A3

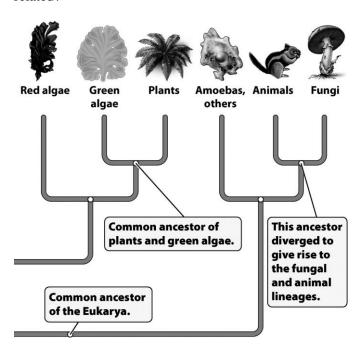
MSC: Factual

- 27. Taxonomy is the subdiscipline in biology that classifies living organisms; at the present time
 - a. all living organisms have been discovered, named, and their relationships to other organisms described.
 - b. humans have just finished a complete count of the number of species on Earth.
 - c. the diversity of organisms on Earth is not completely known and estimates of the number of unknown species vary 10-fold.
 - d. there is no consensus regarding the appropriate classification strategy for the currently known organisms.

ANS: C DIF: Medium REF: 2.2 OBJ: A3

MSC: Applied

28. Based on the evolutionary tree shown below, which of the following are thought to be most closely related?



- a. an oak tree and a squirrel c. a honeybee and a clover plant
- b. a mushroom and a cactus d. a clam and a mushroom

ANS: D DIF: Medium REF: 2.2 OBJ: A3

MSC: Applied

- 29. Classification systems are continually revised as new information becomes available from various sources such as
 - a. better understanding of the details of physiological processes.
 - b. using DNA analysis to compare nonstructural features of different organisms.
 - c. the continued evolution of current Earth species.
 - d. the identification of alien species that have reached Earth via meteorites and comets.

ANS: B DIF: Difficult REF: 2.2 OBJ: A3

MSC: Applied

30. The level in the Linnaean hierarchy immediately above the class is the

a. phylum. c. kingdom.

b. genus. d. order.

	MSC: Factual						
31.	Which of the following a. class b. order	ng wou	ld contain the n		osely related gro genus kingdom	oup of p	bhyla?
	ANS: D MSC: Factual	DIF:	Easy	REF:	2.2	OBJ:	A4
32.	Which of the following a. phylum b. order	ng taxa	in the Linnaear		family	atest to	tal number of species?
	ANS: A MSC: Factual	DIF:	Easy	REF:	2.2	OBJ:	A4
33.	The most inclusive ca a. order. b. phylum.	ategory	in the Linnaear	n classi c. d.	kingdom.	is	
	ANS: C MSC: Factual	DIF:	Easy	REF:	2.2	OBJ:	A4
34.	The members of which a. class b. genus	ch of th	e following tax	a would c. d.		ar to on	ne another?
	ANS: B MSC: Applied	DIF:	Medium	REF:	2.2	OBJ:	A4
35.	The most restrictive ca. species. b. order.	category	y in the Linnaea	an class c. d.	kingdom.	n is	
	ANS: A MSC: Applied	DIF:	Medium	REF:	2.2	OBJ:	A4
36.	In taxonomy, individua. species. b. genus.	uals bel	onging of the s	c.			to the same
	ANS: D MSC: Applied	DIF:	Medium	REF:	2.2	OBJ:	A4
37.	 Which of the following. a. Systematic studies longer considered. b. The number of tax represents a human c. A complete evolution ancestor. d. Many scientists and support of the following studies. 	es have I useful xa in th an unde ationary	revealed so ma ne Linnaean hier erstanding of na v lineage includ	ny erro rarchy tural pr es all th	rs within the Landshas been deterrocesses. The descendants	innaean nined s of a sin	hierarchy that it is no ubjectively; it
	like DNA analysi		•				

ANS: A DIF: Difficult REF: 2.2 OBJ: A4

ANS: A DIF: Easy REF: 2.2 OBJ: A4

MSC: Conceptual 38. Canis latrans is the scientific name for the coyote. The term Canis represents the coyotes' c. order. a. genus. b. kingdom. d. species. ANS: A DIF: Easy REF: 2.2 OBJ: A5 MSC: Applied 39. Which of the following avian species are most closely related? a. Picoides villosus and Picoides borealis b. Picoides borealis and Phylloscopus borealis c. Numenius borealis and Picoides borealis d. Numenius americanus and Grus americana DIF: Medium ANS: A REF: 2.2 OBJ: A5 MSC: Applied 40. There are currently three recognized domains; which of the following is *not* included within this taxon? a. Archaea c. Procarya b. Bacteria d. Eukarya ANS: C DIF: Easy REF: 2.2 OBJ: B1 MSC: Factual 41. The chemical composition of ancient sediments suggests that oxygen was essentially absent from the atmosphere of the early Earth; how can its abundance in today's atmosphere be explained? Sunlight split water molecules apart, a process that produced oxygen gas. b. Volcanic activity released oxygen that had been trapped beneath the Earth's surface. c. Cyanobacteria and some eukaryotes produced oxygen as a byproduct of photosynthesis. d. Chemical erosion of the Earth's surface released oxygen initially bound in surface rocks. ANS: C DIF: Medium REF: 2.2 OBJ: C1 MSC: Factual 42. Prokaryotes differ in several ways from eukaryotes; one of the most distinctive is the absence of a plasma membrane. b. having hereditary material composed of DNA. c. the presence of chromosomes. d. a nucleus that encloses the cell's DNA. ANS: D DIF: Easy REF: 2.3 OBJ: A1 MSC: Factual 43. Bacteria can be distinguished from most other organisms because a. bacterial cells have membrane-bound organelles. b. bacterial DNA is not located within an organelle. c. bacteria reproduce by splitting in two. d. bacteria are generally single-celled. ANS: B DIF: Medium REF: 2.3 OBJ: A1 MSC: Factual 44. In addition to the Bacteria, which other kingdom is comprised exclusively of prokaryotic organisms? c. Protista a. Archaea

	ANS: A MSC: Factual	DIF:	Medium	REF:	2.3	OBJ:	A1
45.	When success is a inhabitants are the		the greatest	number of	living indivi	duals, Ear	th's most successful
	a. vertebrates arb. fungi and anii			c. d.	bacteria and		
	ANS: C MSC: Factual	DIF:	Easy	REF:	2.3	OBJ:	A2
46.	nucleus are never			olve questio		my, for ex	xample, cells that possess a
	a. eukaryote.b. fungi.			c. d.	archaean. protist.		
	ANS: C MSC: Applied	DIF:	Medium	REF:	2.3	OBJ:	A2
47.	Which of the folloa. thermophiles b. halophiles	owing term	s describes	c.	_	ns	remely salty environments?
	ANS: B MSC: Factual	DIF:	Easy	REF:	2.3	OBJ:	A3
48.	Which of the folloa. an archaean b. bacteria	owing wou	ld you mos	c.	. •	e	g-hot spring?
	ANS: A MSC: Factual	DIF:	Easy	REF:	2.3	OBJ:	A3
49.	The photograph b temperatures.	elow show	s Sulfolubu	ıs, an archa	ean that lives	s in enviro	onments with very high

d. Plantae

b. Fungi



What hypothesis can explain the extreme habitats of the archaeans?

- a. They came to Earth from other planets, where harsher conditions prevail.
- b. They would be more widespread, but are unable to successfully compete with bacteria and now occupy habitats where bacteria cannot live.
- c. Archaeans evolved when Earth was much less hospitable, and are now relegated to those habitats most similar to early Earth.
- d. Numerous food resources are available and unexploited in Earth's extreme habitats.

ANS: B DIF: Difficult REF: 2.3 OBJ: A3

MSC: Conceptual

50. Bacterial cells can typically be described by one of the following three shapes:

a. the sphere, rod, or cube.

c. the corkscrew, cube, or rod.

b. the rod, sphere, or corkscrew. d. the cube, sphere, or comma.

ANS: B DIF: Easy REF: 2.3 OBJ: A4

MSC: Factual

51. A distinguishing difference between bacteria and archaeans is

- a. that bacteria are prokaryotic and archaeans are eukaryotic.
- b. the molecules used to construct their cell walls.
- c. the presence of membrane-bound organelles, which are observed only in bacteria.

d. the greater size of the bacterial nucleus.

ANS: B DIF: Medium REF: 2.3 OBJ: B1

MSC: Factual

52.	What best expl mushroom?	ains why bac	teria can rep	produce so	much m	ore rapidly tha	ın an orga	nism like a				
	a. Mushrooms reproduce using spores that require a lengthy exposure to the environment before the outer coating can break open.											
	b. Bacteria live in extreme environments and can avoid having to wait for more favorable											
	conditions to reproduce, like mushrooms and other plants.c. Because most disease-causing bacteria are avoided by consumers, whereas organisms like mushrooms are quickly eaten, preventing rapid population growth.											
	d. Mushroom		exually, so			ypes must con	tact one a	nother				
	ANS: D MSC: Concep		Difficult	REF:	2.3	OBJ:	B2					
53.		tain DNA. ely small, con ely large, cont	aining extra	DNA that	serves i	no known func	tion.					
	ANS: B MSC: Factual		Medium	REF:	2.3	OBJ:	B5					
54.	The group with a. Fungi. b. Animalia.	the greatest	diversity in	c.	es used prokar Plantae	yotes.	on and ene	ergy is the				
	ANS: C MSC: Factual	DIF:	Easy	REF:	2.3	OBJ:	B6					
55.	b. acquiring c	other organis arbon from n arbon-based i	sms onliving sou	urces	ys; all c	of the followin	g methods	s except	_ have			
	ANS: C MSC: Applied	DIF:	Medium	REF:	2.3	OBJ:	B6					
56.	with respect to from rock? a. chemohete	how they are rotroph	•	Vhat term d c.	escribes photoh	s an organism neterotroph						
	b. photoautot	•	Difficult	a. REF:		autotroph	D.6					
	MSC: Applied	DIF:	Difficult	KEF.	2.3	OBJ:	DO					
57.	often depends			present with	nin the s		nosphere,	their abundar	ice			
	a. nitrogenb. oxygen			c. d.	water carbon	dioxide						
	ANS: A	DIF:	Medium	REF:	2.3	OBJ:	C3					

MSC: Applied

- 58. Which of the following statements about bacteria is *false*?
 - a. They help a variety of organisms digest their food.
 - b. They can provide the nitrate necessary for plant nutrition.
 - c. They can be used to clean up oil spills.
 - d. The membranes from their organelles can be used to produce medicines.

ANS: D DIF: Medium REF: 2.3 OBJ: C3

MSC: Applied

- 59. What do these products have in common—soy sauce, yogurt, swiss cheese, and buttermilk?
 - a. All four are modified dairy products.
 - b. Antibiotic therapy often depresses the intestinal bacterial flora; any of the four can be used to reestablish those bacterial colonies.
 - c. Each is one of the better sources of protein for individuals choosing a meatless diet.
 - d. The production of each involves bacterial fermentation.

ANS: D DIF: Easy REF: 2.3 OBJ: C4

MSC: Factual

60. The workers shown in the photograph below are involved in bioremediation; what explanation could account for their specific actions?



- a. They could be adding fertilizers to stimulate the growth of naturally occurring microbes that will consume a pollutant like oil.
- b. They could be dispersing nonnative microbes that will consume a pollutant like oil.
- c. They could be dispersing seeds to reestablish vegetative growth that will remove pollutants from the environment.
- d. All of the above are examples of bioremediation.

ANS: D DIF: Medium REF: 2.3 OBJ: C5

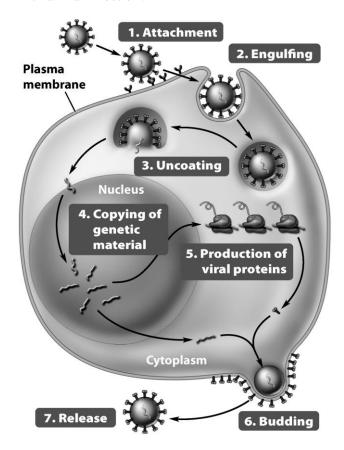
MSC: Applied

- 61. Viral classification and biology has been challenging; presently most biologists agree that viruses
 - a. should be classified as members of the kingdom Protista.
 - b. are constructed from a protein wrapped around DNA or RNA.
 - c. use a photosynthetic process more similar to bacteria than plants.
 - d. should be classified as autochemotrophic.

ANS: B DIF: Difficult REF: 2.4 OBJ: D2

MSC: Applied

62. What aspect of the viral life cycle depicted in the illustration below explains the pathology associated with a viral infection?



- a. Infected cells produce new virus particles rather than the proteins associated with normal cell activity and homeostasis.
- b. Newly replicated virus particles are released by budding, a process that depletes the cell membrane.
- c. The immune response to the presence of viral protein may be extremely intense.
- d. Retroviral insertion of DNA causes immediate cell death.

ANS: A DIF: Difficult REF: 2.4 OBJ: D3

MSC: Applied

- 63. The infective strategy seen in the retroviruses involves the host cell.
 - a. the insertion of RNA and its conversion to DNA within
 - b. the integration of the viral genetic material into the DNA of
 - c. an initial symptom-free period with no pathology evident in
 - d. all of the above

		he immune resp ll of the above		•		effective in the	ese loca	itions.
	ANS: MSC:	B Applied	DIF:	Difficult	REF:	2.4	OBJ:	D4
65.	explai a. ur b. di c. ne	any disease or p ns why such a inary and cardi gestive and res ervous and inte- productive and	large nu ovascul piratory gumenta	umber of viral i lar systems. systems. ary systems.	nfection			the infective cycle, which
	ANS: MSC:	B Applied	DIF:	Difficult	REF:	2.4	OBJ:	D4
66.	a. Dob. A.c. V	anism(s) do the ying viruses bu djacent viruses	y use? rst oper form a cation is iveness	n, and another conjugation tu s sloppy; rando of current treat	virus cabe and on DNA ments.	n take up the re exchange DNA	eleased lateral	
	ANS: MSC:	C Applied	DIF:	Difficult	REF:	2.4	OBJ:	D5
67.	microl a. No in b. A bu c. A se pr d. In	bial flora; what ot surprisingly, dicated that Cip small but insign at test participa single course of cond course of colonged chang	there we pro was enificant the quick of antibio e.	mmarizes the factor vas virtually no unsuitable for treduction in sold vas toler tics administer particularly sen	indings effect; human pecies c ed a non ated we ed short	? otherwise, hun use. liversity follow mal intestinal of ll by the major cly after the firs	nan tria	n course of antibiotics,
	ANS: OBJ:		DIF: MSC:	Medium Factual	REF:	Biology in the	News	
COM	PLETI	ION						
1.		Features that all			and rep	roduce success	fully ca	n be called

DIF: Difficult

a. New viral particles can be easily released in feces or exhaled air.

REF: 2.4

64. A disproportionate number of viral infections occur in the respiratory and digestive systems; how

b. The lung, stomach, and intestinal tract can be easily reached when the virus contacts a new

OBJ: D3

ANS: D

MSC: Applied

host.

might this be explained?

	ANS:	evolutionary						
	DIF:	Easy	REF:	2.1	OBJ:	A1	MSC:	Factual
2.			is 1	the science of n	aming	and classifying	organis	sms within the Linnaean
	hierard	chy.						
	ANS:	Taxonomy						
	DIF:	Easy	REF:	2.1	OBJ:	A1	MSC:	Factual
3.		n an evolutiona	-	descendants sha	are com	nmon features b	ecause	they share a common
	ANS:	ancestor						
	DIF:	Easy	REF:	2.1	OBJ:	A1	MSC:	Factual
4.				rya are the thre			; tl	ney form the highest
	ANS:	domains						
	DIF:	Easy	REF:	2.1	OBJ:	A2	MSC:	Factual
5.	Fossil	evidence sugge	ests tha	t the		were th	ne first	eukaryotic group to evolve.
	ANS:	protists						
	DIF:	Easy	REF:	2.1	OBJ:	A2	MSC:	Applied
6.	indica	ted by DNA an	are alysis o	e diagrams that or comparative	show th	ne relationships on body form,	betwee physiol	en various organisms as logy, or behavior.
	ANS:	Evolutionary	trees					
	DIF:	Medium	REF:	2.2	OBJ:	A1	MSC:	Applied
7.		innaean hierarc n to kingdom.	thy goe	s from species t	o genu	s to family to o	rder to	to
	ANS:	class						
	DIF:	Easy	REF:	2.2	OBJ:	A4	MSC:	Factual
8.	The fa	ther of modern	scienti	fic naming is _			_·	
	ANS:	Carolus Linna	ieus					
	DIF:	Easy	REF:	2.2	OBJ:	A4	MSC:	Factual
9.				acterium dividir ach daughter cel				the process is asexual you



		-						
	ANS:	identical						
	DIF:	Medium	REF:	2.2	OBJ:	B2	MSC:	Applied
10.				too large to en t kills adjacent			patholo	ogy by releasing an
	ANS:	exotoxin						
	DIF:	Medium	REF:	2.2	OBJ:	C6	MSC:	Applied
11.		nd soils are satu			devoid	of oxygen crea	ting a h	abitat ideally suited for
	ANS:	anaerobic						
	DIF:	Easy	REF:	2.3	OBJ:	В3	MSC:	Applied
12.			des	scribes those pr	okaryo	tes able to live	in unus	ually cold conditions.
	ANS:	Psychrophile						
	DIF:	Medium	REF:	2.3	OBJ:	В3	MSC:	Factual
13.				emove plaque, om the surface				ells organized as a
	ANS:	biofilm						
	DIF:	Medium	REF:	2.3	OBJ:	B4	MSC:	Applied
14.	During	g		bacteria tr	ade sma	all sections of p	olasmid	DNA with one another.
	ANS:	conjugation						
	DIF:	Easy	REF:	2.3	OBJ:	B5	MSC:	Factual
15.				en controversial icroscopic,				e that the most appropriate re particle.
	ANS:	noncellular						
	DIF:	Medium	REF:	2.4	OBJ:	D1	MSC:	Factual

16. A viral particle is very simple, consisting of a core of DNA or RNA surrounded by a

	ANS:	protein coat						
	DIF:	Medium	REF:	2.4	OBJ:	D1	MSC:	Factual
17.				to study the co			microb	vial flora, it is necessary to
	ANS:	fecal						
		Easy Applied	REF:	Biology in the	e News		OBJ:	C2
TRUI	E/FALS	SE						
1.	A line	age is a group	of relat	ives that have a	comm	on ancestor.		
	ANS: MSC:	T Applied	DIF:	Easy	REF:	2.1	OBJ:	A1
2.	Switch read.	hing the order	of the la	ast two organism	ms on a	n evolutionary	tree has	s no effect on how the tree is
	ANS: MSC:	T Conceptual	DIF:	Medium	REF:	2.1	OBJ:	A1
3.	Evolu	tionary trees ca	an be us	ed to predict th	e behav	vior of organism	ns.	
	ANS: MSC:	T Applied	DIF:	Medium	REF:	2.1	OBJ:	A1
4.	Protis	ts are part of th	ne doma	in Bacteria.				
	ANS: MSC:	F Factual	DIF:	Easy	REF:	2.1	OBJ:	A2
5.	Bacte	ria, protists, an	d fungi	belong to the d	omain .	Archaea.		
	ANS: MSC:	F Factual	DIF:	Easy	REF:	2.1	OBJ:	A2
6.	DNA	analysis has co	onfirme	d the relationsh	ips amo	ong most specie	es well b	peyond any reasonable doubt.
	ANS: MSC:	F Applied	DIF:	Easy	REF:	2.1	OBJ:	A2
7.	The b	roadest classifi	cation c	category curren	tly used	l by most biolog	gists is	the domain.
	ANS: MSC:	T Applied	DIF:	Easy	REF:	2.2	OBJ:	A3
8.	The m	ost commonly	used cl	assification sys	stem inc	cludes 12 kingd	oms.	

ANS: F DIF: Easy REF: 2.2 OBJ: A3

MSC: Factual

9. The organisms found living inside boiling-hot geysers can be described as thermophiles.

ANS: T DIF: Easy REF: 2.3 OBJ: B3

MSC: Factual

10. Aerobic organisms can survive without oxygen.

ANS: F DIF: Easy REF: 2.3 OBJ: B3

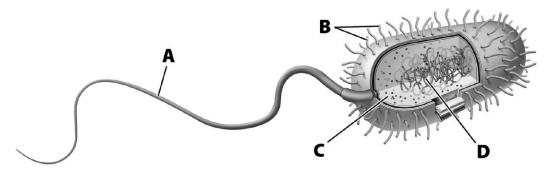
MSC: Factual

11. All bacteria have the same shape.

ANS: F DIF: Medium REF: 2.3 OBJ: B4

MSC: Factual

12. The structure labeled A, below, is cilia, used by both prokaryotes and eukaryotes to move through fluid.



ANS: F DIF: Medium REF: 2.3 OBJ: B4

MSC: Applied

13. During nitrogen fixation, bacteria convert toxic ammonia into atmospheric nitrogen.

ANS: F DIF: Easy REF: 2.3 OBJ: C3

MSC: Factual

14. Archaea, Bacteria, and Eukarya are the three biological domains.

ANS: T DIF: Easy REF: 2.4 OBJ: A2

MSC: Factual

15. The kingdom Bacteria consists of the same species as the domain Bacteria.

ANS: T DIF: Medium REF: 2.4 OBJ: A3

MSC: Applied

16. The rate of evolution in prokaryotes may be accelerated by lateral gene transfer; a process that appears to move genes from one branch of an evolutionary tree to another.

ANS: T DIF: Medium REF: 2.4 OBJ: B5

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MSC: Applied

17. Recent studies on the effects of antibiotics on the normal intestinal microbial flora confirm previous views that these medications are entirely harmless to humans.

ANS: F DIF: Medium REF: Biology in the News

OBJ: C6 MSC: Applied