Principles of Environmental Science Inquiry and Applications 7th Edition Cunningham Test Bank

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Chapter 2

	Student:
1.	The damage to an ecosystem caused by a hurricane or flood can be referred to as
	A. An open system.
	B. An emergent property.
	C. Equilibrium in nature.
	D. A disturbance.
	E. Negative feedback loop.
2.	The relationship among atoms, elements, and compounds is most like the relationship among which of the following groupings
	A. bricks, brick houses, and large brick buildings.
	B. grains of sand, rocks, and continents.
	C. bricks, sidewalks, and paved roads.
	D. ponds, lakes, and oceans.
	E. grains of sugar, sugar, and sweetened iced tea.
3.	Which of the following is not a molecule?
	A. O ₃
	B. O ₂
	C. C
	D. DNA

 $\mathsf{E.}\;\mathsf{H}_2\mathsf{O}$

4.	Which of the following statements would change this into a true statement: "Most, but not all,
	living organisms are made up of organic compounds"?
	A. All living organisms are made up of organic compounds.
	B. All living organisms are made up of inorganic compounds.
	C. Most, but not all, living organisms are made up of inorganic compounds.
	D. Most, but not all, living organisms are made up of organic elements.
	E. Most, but not all, living organisms are made up of inorganic elements.
5.	Energy is the ability to
	A. move objects.
	B. become heated.
	C. transfer heat from one object to another.
	D. All of these are true.
	E. Both move objects and transfer heat from one object to another are true.
6.	Potential energy is energy.
	A. electrical
	B. motion
	C. stored
	D. heat
	E. latent

	A. kinetic
	B. latent
	C. potential
	D. electrical
	E. mechanical
8.	Metabolism can be seen as the process of converting
	A. energy into matter.
	B. potential energy into kinetic energy.
	C. kinetic energy into potential energy.
	D. atoms into compounds.
	E. matter into potential energy.
9.	The law of conservation of matter tells us that matter
	A. can never be reused.
	B. needs to be conserved or it will not be available for future generations.
	C. can be destroyed.
	D. can be conserved by some adaptive strategies.
	E. is used repeatedly.

7. The motion of a rock rolling downhill is known as _____ energy.

- 10. What implication(s) does the law of conservation of matter have for humans?
 - A. We cannot create energy because it is neither created nor destroyed.
 - B. As matter is recycled it loses some of its integrity so we need to be careful when we dispose of goods.
 - C. Natural resources are unlimited because they are used and reused by living organisms.
 - D. Disposable goods are not going "away" when we throw them out.
 - E. All of these are implications of the law of conservation of matter.
- 11. The first law of thermodynamics and the law of conservation of matter are similar in that
 - A. under normal circumstances neither energy nor matter is created nor destroyed.
 - B. both energy and matter are recycled through biological systems.
 - C. both energy and matter flow in a one-way path through biological systems.
 - D. under normal circumstances energy and matter are destroyed as they pass through biological systems.
 - E. The first law of thermodynamics and the law of conservation of matter are not similar.
- 12. What implication(s) does the second law of thermodynamics have for biological systems?
 - A. Systems cannot create energy because energy is neither created nor destroyed.
 - B. With each transformation, less available energy is available to do work so older systems have less energy.
 - C. A constant supply of energy is necessary for maintenance of biological systems.
 - D. Energy is unlimited because it is used and reused by living organisms.
 - E. None of these is an implication of the second law of thermodynamics.

13.	. Photosynthesis is the process of converting	into	energy.
	A. chemical bond energy; kinetic		
	B. solar energy; chemical bond		
	C. solar energy; kinetic		
	D. solar electrical energy; heat		
	E. chemical bond energy; potential		
	3,7,7		
14.	Photosynthesis produces sugars from		
	A water earbon dievide, and energy		
	A. water, carbon dioxide, and energy.		
	B. water, other sugars, and oxygen.		
	C. oxygen, carbon dioxide, and water.		
	D. carbon dioxide, enzymes, and energy.		
	E. oxygen, water, and energy.		
15.	. The process of photosynthesis and cellular respi	ration are similar in th	at they both
			·
	A. capture energy in the form of sugar.		
	B. occur in all living organisms.		
	C. temporarily store energy in chemical bonds.		
	D. capture energy from the sun.		
	E. none of these are correct.		

16. The process of cellular respiration A. helps primary producers store energy accumulated by chloroplasts. B. releases energy from chemical bonds of molecules such as glucose. C. eliminates the need for enzymes in metabolism. D. does not occur in primary producers. E. does not occur in detritivores. 17. All members of a species that live in the same area at the same time make up a(an) A. species. B. ecosystem. C. community. D. population. E. biome. 18. A biological community consists of all

A. populations living and interacting in an area.

C. living things on Earth.

D. populations of a given species.

B. members of a species living in the same area.

E. members of a species living in the same biome.

	A. a physical environment within which a biological community lives.
	B. the species with which a biological community interacts.
	C. a biological community and its physical environment.
	D. the primary producers within a biological community.
	E. all the species in a biological community.
20.	The length and complexity of a food web in the Arctic would be when compared to
	one in the tropical rainforest.
	A. short and less complex
	B. short and more complex
	C. long and less complex
	D. long and more complex
	E. about the same
21.	Producers rely on the process of to release chemical energy and consumers rely
	on the process of to release chemical energy.
	A. cellular respiration; photosynthesis
	B. cellular respiration; cellular respiration
	C. photosynthesis; cellular respiration
	D. photosynthesis; photosynthesis
	E. the sun; the sun

19. An ecosystem consists of

	A. carnivores.
	B. scavengers.
	C. decomposers.
	D. herbivores.
	E. top carnivores
23.	Energy enters a system as sunlight and a producer is able to produce 10 kilograms of tissue. If
	eaten, the producer would produce about kilograms of consumer tissue that would provide
	about kilograms of tissue for a secondary consumer.
	A. 100; 10
	B. 10; 1
	C. 100; 1
	D. 1; 0.1
	E. 10; 0.1
24.	Living plants and the ocean are known as "carbon sinks" because
	A. they are made of carbon.
	B. they create carbon.
	C. they destroy carbon.
	D. they store carbon.
	E. due to gravity, carbon is found closer to the ground.

22. Primary consumers are also known as

25.	are characteristics of an entire system that are greater than the sum of
	its parts.
	A. Open systems
	B. Closed systems
	C. Disturbances
	D. Emergent properties
	E. Feedback loops
26.	Which is the best example of a closed system?
	A. a space station
	B. a forest
	C. a hotel
	D. a lake
	E. a river
27.	Which is not a characteristic of acids?
	A. They readily give up hydrogen ions.
	B. They have a pH of less than 7.
	C. They react easily with living tissue.
	D. They react easily with nonliving minerals.
	E. All of these are characteristic of acids.

28.	How do the organisms living around Yellowstone's hot springs get energy?
	A. By eating alga.
	B. From the heat in the hot spring.
	C. From photosynthesis.
	D. From chemosynthesis.
	E. No organisms can live at the depths of black smokers.
29.	Nitrogen is an essential component of amino acids and proteins.
	True False
30.	Photosynthesis is a step in the global nitrogen cycle.
	True False
31.	Water expands when it crystallizes and freezes.
	True False
32.	Based on what you know of photosynthesis, what effect would clearcutting of large forests have on the amount of carbon dioxide in the atmosphere?
	A. It would increase the level of carbon dioxide since less photosynthesis would be taking place.
	B. The amount of carbon dioxide would be decreased since the trees would no longer be living.
	C. There would be no change in carbon dioxide levels since humans put carbon dioxide into the atmosphere by burning fossil fuels.
	D. The amount of carbon dioxide would be the same since the reaction rates of photosynthesis and respiration are equal.

3	3. If you were to remove the top predator in a food web or food chain
	A. there would be an increase in the number of producers.
	B. the producer population will be depleted because there are more primary consumers or herbivores.
	C. another predator would move in and take its place as top predator.
	D. there would be no change in the exchange of energy since predators get very little (only 10%)
	of the energy from their food source.
3	4. Which biogeochemical cycle lacks an atmospheric component?
	A. The hydrologic cycle.
	B. The carbon cycle.
	C. The nitrogen cycle.
	D. The phosphorous cycle.
3	5. Water supplies contaminated with algae that produce toxins making the water unfit to drink is a
	result of the human impact to the
	A. hydrologic cycle.
	B. carbon cycle.
	C. nitrogen cycle.
	D. sulfur cycle.

36.	The amount of biomass that is produced in an area during a given time would be referred to as
	A. nutrient load.
	B. production.
	C. chemosynthesis.
	D. productivity.
37.	Organisms that live in deep sea ocean vents use chemicals rather than sunlight to drive the
	energy producing reactions. These organisms undergo what process?
	A. Chemosynthesis
	B. Biosynthesis
	C. Accumulation
	D. Photosynthesis
38.	Humans alter the sulfur cycle by
	A. burning fossil fuels.
	B. mining rock.
	C. applying too much fertilizer to crop fields.
	D. clear cutting tropical forests.
	D. Clear Cutting tropical forests.

Chapter 2 Key

1.	The damage to an ecosystem caused by a hurricane or flood can be refer	red to as	
	A. An open system.		
	B. An emergent property.		
	C. Equilibrium in nature.		
	<u>D.</u> A disturbance.		
	E. Negative feedback loop.		
		Blooms: 1. Rememb	e.
		Cunningham - Chapter 02 ;	#:
		Section: 02.0 Topic: Scienc	
		ropie. Colerk	,
2.	The relationship among atoms, elements, and compounds is most like the	relationship among	
	which of the following groupings		
	A. bricks, brick houses, and large brick buildings.		
	B. grains of sand, rocks, and continents.		
	C. bricks, sidewalks, and paved roads.		
	D. ponds, lakes, and oceans.		
	E. grains of sugar, sugar, and sweetened iced tea.		
		Blooms Level: 3. App	<i>7/</i> j
		Cunningham - Chanter 02 :	#1

Section: 2.02
Topic: Chemistry

	A. O ₃	
	B. O ₂	
	<u>C.</u> C	
	D. DNA	
	E. H ₂ O	
		Blooms Level: 2. Understand
		Cunningham - Chapter 02 #3
		Section: 2.02 Topic: Chemistry
		Topic. Criemisiry
4.	Which of the following statements would change this into a true statement:	"Most, but not all,
	living organisms are made up of organic compounds"?	
	A. All living organisms are made up of organic compounds.	
	B. All living organisms are made up of inorganic compounds.	
	C. Most, but not all, living organisms are made up of inorganic compounds	
	D. Most, but not all, living organisms are made up of organic elements.	
	E. Most, but not all, living organisms are made up of inorganic elements.	
		Blooms Level: 2. Understand
		Cunningham - Chapter 02 #4
		Section: 2.02 Topic: Chemistry
		ropic. Onernisa

3.

Which of the following is not a molecule?

5.	Energy is the ability to	
	A. move objects.	
	B. become heated.	
	C. transfer heat from one object to another.	
	D. All of these are true.	
	E. Both move objects and transfer heat from one object to another are true).
		Blooms Level: 1. Remember
		Cunningham - Chapter 02 #5
		Section: 2.03
		Topic: Energy
6.	Potential energy is energy.	
	A. electrical	
	B. motion	
	C. stored	
	D. heat	
	E. latent	
		Blooms Level: 1. Remember Cunningham - Chapter 02 #6
		Section: 2.03
		Topic: Energy

7.	The motion of a rock rolling downhill is known as	_ energy.
	A. kinetic	
	B. latent	
	C. potential	
	D. electrical	
	E. mechanical	
		Blooms Level: 1. Remember Cunningham - Chapter 02 #7
		Section: 2.03
		Topic: Energy
8.	Metabolism can be seen as the process of converting	
	A. energy into matter.	
	B. potential energy into kinetic energy.	
	C. kinetic energy into potential energy.	
	D. atoms into compounds.	
	E. matter into potential energy.	
		Blooms Level: 3. Apply
		Cunningham - Chapter 02 #8
		Section: 2.03

Topic: Energy

	A. can never be reused.
	B. needs to be conserved or it will not be available for future generations.
	C. can be destroyed.
	D. can be conserved by some adaptive strategies.
	E. is used repeatedly.
	Blooms Level: 2. Understand Cunningham - Chapter 02 #9
	Section: 2.02
	Topic: Chemistry
10.	What implication(s) does the law of conservation of matter have for humans?
	A. We cannot create energy because it is neither created nor destroyed.
	B. As matter is recycled it loses some of its integrity so we need to be careful when we dispose of goods.
	C. Natural resources are unlimited because they are used and reused by living organisms.
	<u>D.</u> Disposable goods are not going "away" when we throw them out.
	E. All of these are implications of the law of conservation of matter.
	Blooms Level: 2. Understand
	Cunningham - Chapter 02 #10
	Section: 2.02
	Topic: Chemistry

The law of conservation of matter tells us that matter

9.

-	A. under normal circumstances neither energy nor matter is created nor destroyed.
[B. both energy and matter are recycled through biological systems.
(C. both energy and matter flow in a one-way path through biological systems.
	D. under normal circumstances energy and matter are destroyed as they pass through biological systems.
[E. The first law of thermodynamics and the law of conservation of matter are not similar.
	Blooms Level: 1. Remembe Cunningham - Chapter 02 #1 Section: 2.0 Topic: Energ
١	What implication(s) does the second law of thermodynamics have for biological systems?
/	A. Systems cannot create energy because energy is neither created nor destroyed.
[B. With each transformation, less available energy is available to do work so older systems have less energy.
	C. A constant supply of energy is necessary for maintenance of biological systems.
(
	D. Energy is unlimited because it is used and reused by living organisms.
	D. Energy is unlimited because it is used and reused by living organisms. E. None of these is an implication of the second law of thermodynamics.
	E. None of these is an implication of the second law of thermodynamics.
[

The first law of thermodynamics and the law of conservation of matter are similar in that

11.

13.	Photosynthesis is the process of converting	into	energy.
	A. chemical bond energy; kinetic		
	B. solar energy; chemical bond		
	C. solar energy; kinetic		
	D. solar electrical energy; heat		
	E. chemical bond energy; potential		
			Blooms Level: 1. Remember
			Cunningham - Chapter 02 #13
			Section: 2.04 Topic: Photosynthesis
14.	Photosynthesis produces sugars from		
	A. water, carbon dioxide, and energy.		
	B. water, other sugars, and oxygen.		
	C. oxygen, carbon dioxide, and water.		
	D. carbon dioxide, enzymes, and energy.		
	E. oxygen, water, and energy.		
			Blooms Level: 1. Remembel
			Cunningham - Chapter 02 #14

Section: 2.04

Topic: Photosynthesis

	A. capture energy in the form of sugar.	
	B. occur in all living organisms.	
	<u>C.</u> temporarily store energy in chemical bonds.	
	D. capture energy from the sun.	
	E. none of these are correct.	
		Blooms Level: 2. Understano Cunningham - Chapter 02 #15
		Section: 2.04
		Topic: Photosynthesis
16.	The process of cellular respiration	
	A. helps primary producers store energy accumulated by chloroplasts.	
	<u>B.</u> releases energy from chemical bonds of molecules such as glucose.	
	C. eliminates the need for enzymes in metabolism.	
	D. does not occur in primary producers.	
	E. does not occur in detritivores.	
		Blooms Level: 1. Remember Cunningham - Chapter 02 #16 Section: 2.04
		Topic: Cellular Respiration

The process of photosynthesis and cellular respiration are similar in that they both

15.

17.	All members of a species that live in the same area at the same time ma	ke up a(an)
	A. species.	
	B. ecosystem.	
	C. community.	
	<u>D.</u> population.	
	E. biome.	
		Diagraph and A. Damamhan
		Blooms Level: 1. Remember Cunningham - Chapter 02 #17
		Section: 2.05
		Topic: Populations
18.	A biological community consists of all	
	A. populations living and interacting in an area.	
	B. members of a species living in the same area.	
	C. living things on Earth.	
	D. populations of a given species.	
	E. members of a species living in the same biome.	
		Blooms Level: 1. Remember
		Cunningham - Chapter 02 #18
		Section: 2.05
		Topic: Communities

	A. a physical environment within which a biological community lives.	
	B. the species with which a biological community interacts.	
	C. a biological community and its physical environment.	
	D. the primary producers within a biological community.	
	E. all the species in a biological community.	
		Blooms Level: 1. Remember Cunningham - Chapter 02 #19 Section: 2.05 Topic: Ecosystems
20.	The length and complexity of a food web in the Arctic would beto one in the tropical rainforest.	when compared
	A. short and less complexB. short and more complexC. long and less complexD. long and more complex	
	E. about the same	

19.

An ecosystem consists of

Blooms Level: 3. Apply
Cunningham - Chapter 02 #20
Section: 2.05

Topic: Trophic Levels

21.	Producers rely on the process of	to release chemical energy and consumers
	rely on the process of to release	ase chemical energy.
	A. cellular respiration; photosynthesis	
	B. cellular respiration; cellular respiration	
	C. photosynthesis; cellular respiration	
	D. photosynthesis; photosynthesis	
	E. the sun; the sun	
		Blooms Level: 2. Understand Cunningham - Chapter 02 #21
		Section: 2.05
		Topic: Trophic Levels
22.	Primary consumers are also known as	
	A. carnivores.	
	B. scavengers.	
	C. decomposers.	
	<u>D.</u> herbivores.	
	E. top carnivores	
		Blooms Level: 1. Remember
		Cunningham - Chapter 02 #22

eı

Section: 2.05

Topic: Trophic Levels

23.	Energy enters a system as sunlight and a pro	oducer is able to produce 10 kilograms of tissue. If
	eaten, the producer would produce about	kilograms of consumer tissue that would
	provide about kilograms of tissue	for a secondary consumer.
	A. 100; 10	
	B. 10; 1	
	C. 100; 1	
	<u>D.</u> 1; 0.1	
	E. 10; 0.1	
		Blooms Level: 3. Apply
		Cunningham - Chapter 02 #23 Section: 2.05
		Topic: Trophic Levels
24	Living plants and the easen are known as "as	suban ainkall bassuss
24.	Living plants and the ocean are known as "ca	irbon sinks because
	A. they are made of carbon.	
	B. they create carbon.	
	C. they destroy carbon.	
	D. they store carbon.	
	E. due to gravity, carbon is found closer to th	e around
	E. due to gravity, barbon is found closer to the	o ground.
		Blooms Level: 2. Understand
		Cunningham - Chapter 02 #24 Section: 2.06
		Topic: Biogeochemical Cycles

	are characteristics of an entire system that are greater than the sum
of its parts.	
A. Open systems	
B. Closed systems	
C. Disturbances	
D. Emergent properties	
E. Feedback loops	
	Blooms Level: 1. Remembe
	Cunningham - Chapter 02 #25
	Section: 2.0: Topic: Ecosystems
Which is the best exam	ple of a closed system?
A. a space station	
B. a forest	
C. a hotel	
O. a lake	
E. a river	
	Blooms Level: 3. Apply
	Cunningham - Chapter 02 #26

Section: 2.01
Topic: Ecosystems

27.	Which is not a characteristic of acids?	
	A. They readily give up hydrogen ions.	
	B. They have a pH of less than 7.	
	C. They react easily with living tissue.	
	D. They react easily with nonliving minerals.	
	E. All of these are characteristic of acids.	
		Blooms Level: 1. Remember Cunningham - Chapter 02 #27 Section: 2.02 Topic: Chemistry
28.	How do the organisms living around Yellowstone's hot springs get energ	y?
	A. By eating alga.	
	B. From the heat in the hot spring.	
	C. From photosynthesis. D. From chemosynthesis.	
	E. No organisms can live at the depths of black smokers.	
		Blooms Level: 1. Remember Cunningham - Chapter 02 #28 Section: 2.04 Topic: Energy
29.	Nitrogen is an essential component of amino acids and proteins.	
	TRUE	
		Blooms Level: 1. Remember
		Cunningham Chanter 02 #20

Cunningham - Chapter 02 #29

Section: 2.02

Topic: Chemistry

30.	Photosynthesis is a step in the global nitrogen cycle.
	<u>FALSE</u>

Blooms Level: 2. Understand Cunningham - Chapter 02 #30 Section: 2.04

Topic: Photosynthesis

31. Water expands when it crystallizes and freezes.

TRUE

Blooms Level: 1. Remember Cunningham - Chapter 02 #31 Section: A Water Planet

Topic: Properties of Water

- 32. Based on what you know of photosynthesis, what effect would clearcutting of large forests have on the amount of carbon dioxide in the atmosphere?
 - <u>A.</u> It would increase the level of carbon dioxide since less photosynthesis would be taking place.
 - B. The amount of carbon dioxide would be decreased since the trees would no longer be living.
 - C. There would be no change in carbon dioxide levels since humans put carbon dioxide into the atmosphere by burning fossil fuels.
 - D. The amount of carbon dioxide would be the same since the reaction rates of photosynthesis and respiration are equal.

Blooms Level: 5. Evaluate

Cunningham - Chapter 02 #32

Section: 2.04

Topic: Photosynthesis

33.	If you were to remove the top predator in a food web or food chain	
	A. there would be an increase in the number of producers.	
	<u>B.</u> the producer population will be depleted because there are more primary consumers or	
	herbivores.	
	C. another predator would move in and take its place as top predator.	
	D. there would be no change in the exchange of energy since predators get very little (only	

Blooms Level: 3. Apply

Cunningham - Chapter 02 #33

Section: 2.05

Topic: Trophic Levels

34. Which biogeochemical cycle lacks an atmospheric component?

10%) of the energy from their food source.

- A. The hydrologic cycle.
- B. The carbon cycle.
- C. The nitrogen cycle.
- <u>D.</u> The phosphorous cycle.

Blooms Level: 2. Understand

Cunningham - Chapter 02 #34

Section: 2.06

Topic: Biogeochemical Cycles

35.	Water supplies contaminated with algae that produce toxins making the water unfit to drink is		
	a result of the human impact to the		
	A. hydrologic cycle.		
	B. carbon cycle.		
	C. nitrogen cycle.		
	D. sulfur cycle.		
	Blooms Level: 3. Apply		
	Cunningham - Chapter 02 #3: Section: 2.00		
	Topic: Biogeochemical Cycles		
36.	The amount of biomass that is produced in an area during a given time would be referred to		
	as		
	A. nutrient load.		
	B. production.		
	C. chemosynthesis.		
	D. productivity.		
	Blooms Level: 1. Remembe		
	Cunningham - Chapter 02 #30 Section: 2.0s		
	Topic: Trophic Levels		

37.	Organisms that live in deep sea ocean vents use chemicals rather than sunlight to drive the	
	energy producing reactions. These organisms undergo what process?	
	<u>A.</u> Chemosynthesis	
	B. Biosynthesis	
	C. Accumulation	
	D. Photosynthesis	
		Blooms Level: 2. Understand Cunningham - Chapter 02 #37
		Section: 2.04
		Topic: Photosynthesis
00		
38.	Humans alter the sulfur cycle by	
	A. burning fossil fuels.	
	B. mining rock.	
	C. applying too much fertilizer to crop fields.	
	D. clear cutting tropical forests.	
		Blooms Level: 2. Understand
		Cunningham - Chapter 02 #38 Section: 2.06
		Topic: Biogeochemical Cycles

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Chapter 2 Summary

<u>Category</u>	# of Questions
Blooms Level: 1. Remember	18
Blooms Level: 2. Understand	11
Blooms Level: 3. Apply	7
Blooms Level: 5. Evaluate	1
Blooms: 1. Remember	1
Cunningham - Chapter 02	73
Section: A Water Planet	1
Section: 02.02	1
Section: 2.01	2
Section: 2.02	7
Section: 2.03	6
Section: 2.04	8
Section: 2.05	9
Section: 2.06	4
Topic: Biogeochemical Cycles	4
Topic: Cellular Respiration	1
Topic: Chemistry	7
Topic: Communities	1
Topic: Ecosystems	3
Topic: Energy	7
Topic: Photosynthesis	6
Topic: Populations	1
Topic: Properties of Water	1
Topic: Trophic Levels	6
Topic: Science	1