https://selldocx.com/products/test-bank-sustaining-the-earth-11e-miller Class Name e: Chapter 1 - Environmental Problems, Their Causes, and Sustainability 1. Water is an example of a renewable resource. a. b. a nonrenewable resource. an ecosystem service. c. d. an ecological footprint. nutrient recycling. ANSWER: a 2. As part of the path to sustainability, tradeoffs most specifically refer to trading environmental quality for economic growth. trading quality of life issues for ecological enhancements. resolving conflicts through compromise. solving environmental conflicts. d. recognizing that human activities degrade natural capital. e. ANSWER: c 3. Gross Domestic Product (GDP) measures death rates. a. b. economic growth. population growth. c. d. the wealth of developing countries. the wealth of developed countries. e. ANSWER: b 4. A renewable resource can be used indefinitely. b. replenished by natural processes within hours to centuries. replenished by natural processes in millions of years. consumed completely if it is managed within its sustainable yield. e. found and used easily. ANSWER: b 5. The more-developed countries a. include the United States, India, and Canada. b. include many African and Latin American countries. c. have most of the world's population. d. use disproportionately more of the world's resources compared to their populations. e. use the appropriate amount of resources for their populations. ANSWER: d

6. Life has been sustained on the earth

a. for approximately six billion years.

b. since the time of the last impact of the meteorite.

Name		Class :	Dat e:	
Chapter 1 - En	vironmental Problems, Their Causes, and	Sustainability		
d. sin	ough millions of years of ice ages and long ce the human species has been around. cause of renewable resources.	g warming periods.		c
b. the love. the high	le yield is rerage rate at which a renewable resource of west rate at which a nonrenewable resource ghest rate at which a nonrenewable resour ghest rate at which a renewable resource co west rate at which a renewable resource co	ce can be used without an be used without a	ut reducing its available supply. Out reducing its available supply. Deducing its available supply. Deducing its available supply. Deducing its available supply.	d
a. relib. envc. natd. nut	rinciples of sustainability are tance on solar energy, biological diversity vironmentalism, ecosystems, and solar energy rient resources, natural services and water rient cycling, water resources, and environar energy, ecosystems, and natural capital.	ergy. resources. nmentalism.		a
a. win- b. full-c c. envii d. win- e. full-c	e three social science principles of sustain win solutions, a responsibility to future ge cost pricing, subsidies, and win-win soluti ronmentalism, a responsibility to future ge win solutions, full-cost pricing, and enviro cost pricing, win-win solutions, and a resp	enerations, and equal ons enerations, and subsi onmentalism	dies	
4NSWER: 10. Resources a. b. c. d. e.	that are called nonrenewable are also called perpetual resources. the only resources that are alive. a fixed quantity in the earth's crust. derived from solar capital. found almost everywhere on the earth.			e
ANSWER:	found annost everywhere on the earth.			c
11. Which of t a. b. c. d.	the following is an example of recycling? collecting and remelting aluminum beer cleaning and refilling soft-drink bottles using fewer paper products saving leftovers in a peanut butter jar	cans		

donating furniture to a charity

Name 	Class ::	Dat e:
Chapter 1 - Environ	mental Problems, Their Causes, and Sustainability	
ANSWER:		a
a. ground b. trees c. fertil d. coal, e. trees and an e. trees and an e. trees and an e. trees an e. using comb. using share	tentially renewable resources include ndwater, trees in a forest, and fertile soil. in a forest, animals, and oil. le soil, air, and fossil fuels. groundwater, and plants. in a forest, fossil fuels, and air. ive new effort to prevent the "tragedy of the commons" might in mon-property resources at or above their sustainable yields. red resources at rates below their estimated sustainable yields. rom a users pay approach to a taxpayers pay approach.	a
_	ing industries that use common-property resources.	
e. increasing ANSWER:	g public availability to resources.	b
a. a country's absorb the residualb. a country over a country deald. a country deal	eficit is created when ecological footprint is smaller than its biological capacity to represulting wastes. verestimates its spending in the current fiscal year. epletes its annual budget faster than its biological capacity to repletes its natural capital slower than its biological capacity to rethe resulting wastes.	plenish its renewable resources.
•	epletes its natural capital faster than its biological capacity to re the resulting wastes.	•
	ging on manufactured goods in an example of pollution cleanup pollution prevention. the tragedy of the commons. a tradeoff an end-of-the-pipe solution.	e b
16. Currently, the coa. b. c. d. e.	ountry with the world's largest population is USA. India. Mexico. China. United Arab Emirates.	

Name :	Clas	is	Dat e:
Chapter 1 - Environ	mental Problems, Their Causes, and Sustaina	ability	_
ANSWER:			d
a. b. c. d. e. ANSWER:	runoff from cropland. fertilizer runoff from lawns. litter from fishing boats. runoff from cropland. a drainpipe from a factory. nonpoint source pollution is icides blown from the land into the air.		e
b. an a c. a sn d. an c	utomobile tailpipe. nokestack from a power plant. il leak from a home furnace. pe discharging into a river.		a
a. Pollutb. Pollutc. A cond. The m	way to deal with pollution? ion cleanup only ion prevention only abination of pollution cleanup and prevention lost popular way at the current time heapest way	1	c
a. learning tob. learning hoc. inventing nd. medical ad	revolution is best characterized by live more sustainably with smaller ecologica w to grow and breed plants and animals for fnachines for large-scale production of goods vances to allow a growing number of people the human population.	food. in factories.	es. a
a. A factob. Some lc. Some ad. Irrigatee. Croplan	t best illustrates the "tragedy of the commons ry pollutes a river as much as the law allows evels of pollution are life threatening. ctivities harm the environment, but others do d cropland can be ruined by salinization. and can decrease biodiversity.		
ANSWER:	w is most consistent with the current situation	on in the Heire Lores of	a
// Which worldvie	w is most consistent with the current situation	in in the United States?	

Name				Class :	Dat e:	
Chapter 1	- Environn	nental Proble	ms, Their Causes, and Su	- ıstainability		_
	a.	planetary	Management			
	b.	biocentri	-			
	c.	stewardsl	nip			
	d.	humility	•			
	e.	•	ental wisdom			
ANSWER:					a	
23. Which	of the foll	owing statem	ents about less-develope	d countries is true?		
a.	They are	highly indust	rialized.			
b.	They usua	ally have eno	ugh food, water, and she	lter.		
c.	The Unite	ed States, Car	nada, and Japan are devel	loping countries.		
d.			inue to grow at high rates	s.		
e.	Their pop	oulations are p	projected to decrease.			
ANSWER:	•				d	
24. Afflue	nt countrie	S				
a. 1	have low le	evels of resou	rce use.			
b. :	include Ch	ina and India				
c. :	are usually	poor.				
d.	are most re	sponsible for	environmental degradati	ion, wastes, and pollution.		
e.	use local re	esources.				
ANSWER:					d	
25. The hu	ıman popul	lation current	ly totals			
		a.	87 million.			
		b.	2 billion.			
		c.	4 billion.			
		d.	7.1 billion.			
		e.	10 billion.			
ANSWER:					d	
26. Accord	ding to a n	umber of envi	ronmental and social sci	entists, four basic causes of	f environmental degradation are	
•		•		of resources, and governm	•	
_	overty, poprices.	ulation declin	e, unsustainable resource	e use, and failure to include	e environmental costs in market	
_	overty, poprices.	ulation growt	h, unsustainable resource	e use, and failure to include	e environmental costs in market	
d. po	verty, pop	ulation growt	h, unsustainable resource	e use, and government corru	uption.	
e. po	verty, pop	ulation declin	e, unsustainable resource	e use, and including environ	nmental costs in market prices.	
ANSWER.						

27. We can best face the challenge of slowing population growth through

a. promoting family planning and elevating the status of women.

Name :		Class :	Dat e:	
Chapter 1	- Envir	ironmental Problems, Their Causes, and Sustainability		
b.	slowi	ring economic development.		
c.		lation that applies only in less developed countries.		
d.	overe	exploiting shared resources.		
e.	decre	easing the educational status of women.		
ANSWER:				a
28. Povert	y is def	efined as		
a. the	e inabil	ility to live a healthy and productive life.		
b. a l	ife foc	cused on gathering enough food and water for survival.		
c. the	e gap b	between the affluent and poor in underdeveloped countries		
d. the	e inabil	ility to live a sustainable life.		
	condition ucation	ion in which people are unable to fulfill their basic needs for food, water, shelten.	er, health, and	
ANSWER:				e
29. Decrea	sing po	population growth in more-developed countries will		
	a.	decrease resource consumption.		
	b.	increase resource consumption.		
	c.	decrease poverty.		
	d.	increase the ecological footprint.		
	e.	decrease education.		
ANSWER:				a
30. Compa	anies us	using resources to provide goods for consumers		
a. ar	e not g	generally required to pay for the harmful environmental costs of supplying the	goods.	
b. ar	e usual	ally required to pay for the harmful environmental costs of supplying the goods	5.	
c. al	most a	always clean up any pollution from their business operations.		
d. pa	ass on t	the cost of environmental degradation to consumers.		
e. m	ust rep	port their environmental degradation.		
ANSWER:				a
31. Accord	ding to	o World Bank estimates, how many people live on less than US \$1.25 per day?		
		a. 200 million		
		b. 400 million		
		c. 900 million		
		d. 2.4 billion		
		e. 3.9 billion		
ANSWER:				c
32. Your e	nviron	nmental worldview describes		

b. whether you are a creationist or evolutionist.

c. your perception of the role of *Homo sapiens* in the universe.

a. your environmental ethic.

Name :			Class	Da e:	t
Chapter 1 - Enviro	onmental I	Problems, Their Causes, and	I Sustainability		
d. your assur world sho		nd values that reflect how yo	ou think the world	works and what you think yo	our role in the
e. your politi	ical ideolo	gy that defines one's percep	otion of the health	of the planet.	
ANSWER:					d
		rldview proposes that we ca aring and responsible mana		age the earth for our benefit,	but that we have an
a.	pla	netary management			
b.	ste	wardship			
c.	env	vironmental wisdom			
d.	nat	ional origin			
e.	tec	hnological			
ANSWER:					b
	all species	s, and not merely for us?	e part of and depe	ndent on nature and that the e	earth's life-support
a.	_	netary management			
b.		wardship			
c.		vironmental wisdom			
d.	nat	ional origin			
e.	tec	hnological			
ANSWER:					c
35. A reasonable g			owth by year	to level off around bill	ion.
	a. 1-	2040; 8 billion			
	b.	2020; 8 billion			
	C.	2040; 13 billion			
	d.	2020; 6 billion			
ANCINED.	e.	2060; 5 billion			
ANSWER:					a
36. Government s	ubsidies to	companies are most likely	to cause problems	s because	
		nies can qualify for them.	•		
b. they	y stimulate	e the "wrong" kind of job gr	owth.		
c. they	y may ence	ourage depletion of natural	capital.		
d. they	y cannot c	ontrol consumption habits.			
e. they	y take the	place of tradeoffs.			
ANSWER:		•			c
27 OCA - C 11 .		41	4. 41 41	-i-1 C	
	ng behavi ing of mat	ors, the one that runs counte	T to the three princ	cipies of sustainability is	
· · · · · · · · · · · · · · · · · · ·	nig of mat g material				
o. reusing	z maichal	o.			

c. producing and consuming anything people are willing to buy.

Name :	Class :	Dat e:
Chapter 1 - Environmental Problems	s, Their Causes, and Sustainability	
d. initiating a tree planting	drive in your community.	
e. relying more on renewal	•	
ANSWER:	-	c
38. The earth's natural income inclu	des	
a. the human population.		
	provided by Earth's natural capital.	
c. plants.		
d. fossil fuels.		
e. the nonrenewable resour	rces.	
ANSWER:		b
39. Meeting current and future basic basic needs is considered a(n)	resource needs without compromising the a	ability of future generations to meet their
a. natural income.		
b. trade-offs.		
c. scientific solutions	S.	
d. environmentally s	ustainable society.	
e. natural capital deg	gradation.	
ANSWER:		d
40. An environmentally sustainable	society	
	al while also using renewable resources.	
•	avor economic growth and development.	
c. lives on the income the na	_	
d. uses nonrenewable resour		
e. compromises the ability o	of future generations to meet their basic need	ls.
ANSWER:	C .	c
41. Reusing involves collecting was	te materials and processing them into new m	naterials.
a.	True	
b.	False	
ANSWER:		False
42. Environmental science is an inte	erdisciplinary study that integrates the humar	nities and natural sciences.
a.	True	
b.	False	
ANSWER:		True
43. Environmental science is the sam	ne as environmentalism.	
a.	True	
b.	False	
ANSWER:		False

Name :		Class :	Dat e:
Chapter 1 - Environme	ental Problems, Thei	r Causes, and Sustainability	
44. When a nonrenewa	able resource is com	pletely exhausted, humans can ra	rely find a substitute.
	a.	True	
	b.	False	
ANSWER:			False
45. Forests, aluminum	deposits and natura	gas are all examples of renewab	le resources.
	a.	True	
	b.	False	
ANSWER:			False
46. Economic growth improve living standar		s and services whereas economic	development uses economic growth to
	a.	True	
	b.	False	
ANSWER:			True
47. When a country's 0	GDP decreases, the p	per capita GDP must also decreas	e.
	a.	True	
	b.	False	
ANSWER:			False
48. Scientists recomme	end pollution preven	tion over pollution cleanup becau	use it is cheaper than cleanup.
	a.	True	
	b.	False	
ANSWER:			True
49. The per capita eco with no consideration		5 1	and usable water to support the population
	a.	True	
	b.	False	
ANSWER:			False
50. Developing countr	ies have a significan	t negative effect on the environm	ent because of the consumption per person.
	a.	True	
	b.	False	
ANSWER:			False
51. Developed countri	es have a significant	negative effect on the environme	ent because of the consumption per person.
	a.	True	
	b.	False	
ANSWER:			True
52. In the United State	es the air quality is pe	oorer and drinking water more po	olluted today than in the 1970s.
	a.	True	

name :		Class :	e:
Chapter 1 - Environn	nental Problems, Their	Causes, and Sustainability	
	b.	False	
ANSWER:			False
53. Rapid population	growth and poverty a	re reflective of developing co	untries and have little impact on pollution.
1 1 1	a.	True	1 1
	b.	False	
ANSWER:			False
54. The exponential 1	rate of global population	on growth has declined since t	the 1960s.
1	a.	True	
	b.	False	
ANSWER:			True
55. Individuals can c	ontribute to sustainabi	lity.	
	a.	True	
	b.	False	
ANSWER:			True
56. Dealing with con	flicts between scientif	ic solutions and political solut	tions usually involves making
ANSWER:	·	trade-	
		tradeo	offs
57. A social moveme	ent dedicated to protec	ting the earth's life support sys	stem for all forms of life is called
ANSWER:	 ·	environmentalism	
58. Non-renewable re	esources include	sources s	uch as oil and natural gas that cannot be recycled.
ANSWER:			energy
59. Old soda bottles t	that are collected, was	hed, and refilled are an examp	ole of .
ANSWER:	,	•	reuse
60. The United States	s. Canada, and Japan a	re examples of	with a high average per capita GDP.
ANSWER:		-developed countries	with a mgn at ongo per cupital earth
61. A(n)	is a set o	of organisms within a defined	area or volume that interact with one another and
with nonliving matter	r in their environment.	8	area or volume that interact with one another and
ANSWER:		ecosyste	em
62. A chemical dump	osite would be an exan	nple of a(n)	pollutant.
ANSWER:		point source	·
63.	is a possible s	olution to the problem of peop	ple exploiting a free-access resource, but it may
	lobal common resource		1 6
ANSWER:		Private ownership	

Name	Class	Dat
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Chapter 1 - Environmental Problems, Their Causes, and Sustainability

64. The presence within organisms is	the environment of a chemical or other agent at a level that is harmful to humans or other
ANSWER:	pollution
65. Your	refers to the set of assumptions and values you hold with regard to your role in the
world. <i>ANSWER</i> :	environmental worldview

Critical Thinking







66. How many Earths are we currently using compared to the earth's ecological capacity? *ANSWER*: We are currently using 1.5 Earths.

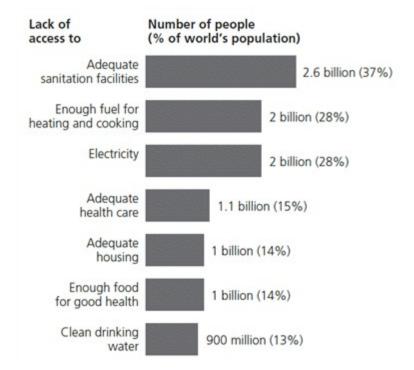
67. What will happen if humanity's ecological footprint continues to be greater than the earth's ecological capacity?

ANSWER: Humans will destroy their environment, more and more animal and plant species will be lost, poverty and disease will increase, etc.

Critical Thinking

Name	Class	Dat
		Δ.

Chapter 1 - Environmental Problems, Their Causes, and Sustainability



68. Do you think that the numbers overlap in the accompanying graph, which illustrates the percentage of the world's population who lack access to basic amenities? Why or why not?

ANSWER: Often times the effects of poverty are not isolated. Also, the total percentage of the world's population without access to these amenities is greater than 100%.

69. Why does the search for scientific solutions to sustainability problems often involve conflicts?

ANSWER: Scientific solutions most times do not involve political solutions. Trade-offs or compromises become necessary in order to implement scientific solutions through political processes.

70. List the three scientific principles of sustainability and give an example of each.

ANSWER: The three principles are the reliance on solar energy, biodiversity, and nutrient cycling. Examples will vary.

- 71. How does environmentalism differ from environmental science or ecology?
- ANSWER: Environmentalism is a social movement dedicated to protecting the earth's life-support systems that is practiced more in the political and ethical arenas whereas environmental science practiced in the science arena.
- 72. Describe the environmental wisdom worldview and provide an example.

ANSWER: "we are part of and dependent on nature and that nature exists for all species, not just us. It also calls for encouraging environmentally friendly forms of economic growth and development and discouraging Earth-degrading forms. Our success depends on learning how life on Earth sustains itself and on integrating environmental wisdom into the ways we think and act." Examples will vary.

73. Although the poor have limited access to resources, they still have an overall high environmental impact. Explain why this statement is true.

ANSWER: The large number of poor that are preoccupied with daily survival do not focus on long term environmental issues, which leads to environmental degradation. They often use more nonrenewable resources (as opposed

Name	Class	Dat
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	•	℧.

Chapter 1 - Environmental Problems, Their Causes, and Sustainability

to renewable).

- 74. Poverty can increase environmental degradation; however, environmental degradation can increase poverty. Why is this so?
- ANSWER: Poor people may be less concerned about environmental issues since they are preoccupied with daily survival. However, the poor are severely impacted by environmental degradation since they have less access to adequate sanitation and health care facilities.
- 75. Make an argument supporting the statement that *individuals matter in making the shift toward environmental sustainability?*
- ANSWER: Sustainability begins with our daily choices. It only takes 5-10% of the population in a community to bring about major change in a relatively short time frame.