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CHAPTER 1 - ENVIRONMENTAL PROBLEMS: AN INTRODUCTION AND OVERVIEW

- 1. What does the discipline of ecology study?
 - a. relationships between organisms and their environment
 - b. how endangered plants are cultivated
 - c. how animals behave and breed
 - d. the mechanisms of global climate change

ANSWER:

- 2. What is environmentalism?
 - a. It is the science of studying the structure and function of nature.
 - b. It refers specifically to radical acts performed to focus attention on the environment.
 - c. It is a social movement dedicated to protecting the Earth's life support systems.
 - d. It is the sum total of everything that has been written about outdoor science.

ANSWER:

- 3. Which of the following is NOT considered part of natural capital?
 - a. soil
 - b. sunlight
 - c. water
 - d. air

ANSWER: b

- 4. Which is the best description of how an environmentally sustainable society manages its resources?
 - a. it satisfies the needs of its people by harvesting without depleting Earth's capital
 - b. it focuses on all levels of society having sustainable incomes
 - c. it satisfies all society's needs by not harvesting any new materials
 - d. it focuses on today's society's needs and the needs of endangered species

ANSWER:

- 5. Which of the following is NOT an example of exponential growth?
 - a. the king who promised to double the number of grains of wheat he put on each successive square of a checkerboard
 - b. human population growth
 - c. a stock portfolio that increases at 15% one year, then 275% the next, then 42% the next
 - d. money in a savings account

ANSWER:

- 6. What is the best description of the growth rate of most of the environmental problems we face?
 - a. the problems are increasing exponentially
 - b. the problems are increasing linearly
 - c. the problems are decreasing linearly
 - d. the problems are decreasing exponentially

ANSWER:

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7. What is the	e pace of	f exponential g	rowth?		
a.	•	ts rapidly and i			
b.	it star	ts out slowly th	nen becomes very	rapid	
c.	it star	ts out slowly a	nd remains slow		
d.		nains constant			
ANSWER:					b
					out 1.2% a year. Considering how many te a city the size of Vancouver (604,000
		a.	3 days		
		b.	1 week		
		c.	1 month		
		d.	6 weeks		
ANSWER:					a
a. it is a b. it is a c. it is a d. it is a ANSWER:	an increencouraencoura	ase in the capa- ged by increase ged by populat rovement of liv	ed consumption poor ion growth ing standards by e	o provide people with goo er capita economic growth	d ountry for use within a year (expressed in
,	a.	gross dome	estic product		
	b.	gross natio	nal product		
	c.	per capita (GNP		
	d.	per capita (GDP		
ANSWER:					a
a. theyb. theyc. they	y includ y have h y make	e the United St nigh average Gl up about one-te	NPs per person enth of the world's	in, and the former Soviet to population	Union
	y use ab	out 12% of the	world's resources	5	_
ANSWER:					d
12. Which sta	atement	characterizes d	leveloped countrie	s?	
a. t	hey mal	ke up 17% of tl	ne world's popula	ion	
b. t	hey are	primarily in A	frica, Asia, and La	tin America	

c. they have low to moderate GNPs per person

d. they experience annual population growth of about 16%

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ANSWER:		a
a. their degree of political stability and to their degree of industrialization and to their degree of environmental sustain d. their ecological footprint alone	their social equality heir per capita GDP	
ANSWER:		b
14. What percentage of the world's human popula. b. c.	57% 37% 17%	?
d. 4 <i>NSWER:</i>	7%	c
 a. a new term for mass immigration into b. a satellite-based communications syst c. worldwide integration of social, econd d. the ability of all of society to travel was an example. 	em omic, and environmental change	c
a. intergenerational equity b. setting limits on human population c. meeting the needs of people d. use of economic systems and the east	n growth	nt in terms of its emphasis?
a. they can be replenished fairly rapidly o b. they are things like winds, tides, and floc. they are renewed continuously on a hur d. they are things that are continually availables.	owing water man time scale	ral processes
 18. What is a common-property resource? a. an environmentally depleted resource; b. a resource owned by a group of private c. a resource that has a number of difference on individuals own the resource, and in 	e owners that is available for all own nt uses and is available for all own	

ANSWER:

d

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19. Which resource	is a non-metallic mine	ral resource?	
	a.	water	
	b.	soil	
	c.	oil	
	d.	sand	
ANSWER:			d
20 Which resource	is NOT renewable?		
20. Which resource	a. trees in a	forest	
	b. oil		
	c. fertile soil		
	d. groundwa	ter	
ANSWER:	S		b
a. letting ago b. using oil of c. using sola d. cutting tree ANSWER:	ricultural runoff cause to make gasoline ar power at a rapid rate ees for wood products	ources es vironmental degradation? oxygen depletion and fish kills downstrea	d am
a. Irrigateb. Some lc. Some a	ed cropland can be ruin evels of pollution are l activities harm the envi	-	d
a. it is 6.8b. it is 3.4	in Canada, equal to th	print, on a per capita basis (global hectard e that of the United States y lower than the United States States at 3.8	es per person), is accurate?

ANSWER:

d. it is the highest in India at 7.2

a

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	is an example of new efforts to prevent the tragedy of the comming land from private to more public ownership	mons?
b. using com	nmon-property resources at or above their sustainable yields	
c. moving fr	om a taxpayer-pay approach to a user-pay approach	
d. moving fr	rom a user-pay approach to a taxpayer-pay approach	
ANSWER:		c
26. Which statement	characterizes renewable resources?	
a. renewab	ole resources includes fertile soil and clean water	
b. renewab	ole resources are the only resources that are alive	
c. renewab	ple resources are also called perpetual resources	
d. renewab	ple resources include natural gas and forests	
ANSWER:		a
27. What can theoret	tically happen to all non-renewable resources?	
a. they can	n be converted to non-metallic minerals	
b. they can	n be converted to renewable resources	
c. they can	n be exhausted or depleted	
d. they can	n be naturally replaced in a relatively short time	
ANSWER:		c
28. What can we do	when a resource is economically depleted?	
a. fin	nd new reserves of the resource	
b. de	velop substitutes for that resource	
c. inc	crease the price of the resource	
d. use	e a common-property approach	
ANSWER:		b
29. Which of the foll	lowing is NOT a point source of pollution?	
a. j	pesticides sprayed into the air	
b. a	an automobile tailpipe	
c.	a factory smokestack	
d.	a drainpipe from a power plant	
ANSWER:		a
30. Which of the foll	lowing is NOT a nonpoint source of pollution?	
a. pesticid	les dispersed by airplane and wind onto a crop	
b. runoff f	from a stockyard	
c. a smoke	estack from a power plant	
d. fertilize	er runoff from lawns	
ANSWER:		c

31. You generally buy and eat microwave dinners. After dinner, cardboard tops and plastic trays remain. What is the least

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a. prepare large quab. donate the plastic	c containers to the local nu onents and incinerate then	oroblem? it into your own reusable midursery schools to use with prent of they don't take up landfill	schoolers Il space	
ANSWER.			С	
32. What is NOT importa a. b. c.	nt in determining the dam persistence origin concentration	age produced by a pollutant?		
d. <i>ANSWER</i> :	chemical nature		b	
b. we lack technolc. too much effort	fer pollutants from one pa ogy to clean up most poll and funding is focused or			
34 What is the root cause	of environmental problem	ns?		
a. cl b. w c. ra	limate change vater pollution apid population growth	113.		
d. fo ANSWER:	ood supply problems		c	
a. ecolog	gical ignorance imate in which people live ty	of environmental problems?		
ANSWER:			b	
die prematurely from? a. AIDS b. malnutrition c. infectious con	he four major preventable ditions like diarrhea sease from the indoor burn		f the world's desperately poor child	lren

ANSWER:

a

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ONMENTAI	L PROBLEMS: AN INTROI	OUCTION AND OVERVIEW
	•	
		rol
	•	
	•	a
to form the ba	asis of an economist's opinion?	
on is growing	exponentially.	
uggests that po olems.	otential global climate change, def	orestation, and species loss should be
d increases is	declining.	
important reso	ource.	
		d
to form the ba	asis of an environmentalist's opini	on?
	•	
he temperate z	cone region's industrialized countr	ies increased during the 1980s.
uggests that po olems.	otential global climate change, def	orestation, and species loss should be
opulation grov	vth is declining.	
		c
esentative of an	n environmental wisdom worldvie	w?
economic grov	th will improve environmental co	nditions.
the most impo	ortant life forms on Earth.	
als efficiency	must continually be improved.	
		d
ainable society	must be based on policies that pr	ovide for economic growth and development.
a.	True	8
b.	False	
		False
-	_	nt because of high levels of consumption per
a.	True	
b.	False	
		True
mons" refers to	o a lack of agricultural sustenance	available for the common (poor) people in a
a.	True	
	on poor people hildren for eco hildren for soch hildren because hildren because hildren because hildren because hildren because hildren because to form the base on is growing auggests that problems. It to form the base important resolution grow to form the base and cheape he temperate zuggests that problems. To form the base important of an and cheape he temperate zuggests that problems. To form the base important and cheape he temperate zuggests that problems. To form the base important and cheape he temperate zuggests that problems. To form the base important and cheape he temperate zuggests that problems. To form the base important resolution grow the most important im	DNMENTAL PROBLEMS: AN INTROI on poor people often have more children? hildren for economic security hildren for social status hildren because they do not believe in birth cont hildren because they cannot afford birth control to form the basis of an economist's opinion? on is growing exponentially. uggests that potential global climate change, def olems. d increases is declining. important resource. to form the basis of an environmentalist's opini ant and cheaper than at any other time in human he temperate zone region's industrialized countr uggests that potential global climate change, def olems. opulation growth is declining. sentative of an environmental wisdom worldvie de ded directed to research on controlling the envi- economic growth will improve environmental co- the most important life forms on Earth. als efficiency must continually be improved. ainable society must be based on policies that pr a. True b. False te a significant negative effect on the environmental impact per unit of consumption. a. True b. False

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	b.	False	
ANSWER:		1 0.00	False
44. Affluenza increase	es man's ecological f	ootprint and compromises environ	mental quality for people all over the world.
	a.	True	
	b.	False	
ANSWER:			True
45. Decreasing popula	ntion growth in devel	oped countries will decrease resou	arce consumption.
	a.	True	
	b.	False	
ANSWER:			False
46. The per capita eco with no consideration			nd usable water to support the population
	a.	True	
	b.	False	
ANSWER:			True
47. As in a human boo	ly, the Earth's capaci	ty to repair itself is critical to its s	urvival.
	a.	True	
	b.	False	
ANSWER:			True
48. When a country's	GDP decreases, the 1	per capita GDP must also decrease	s.
	a.	True	
	b.	False	
ANSWER:			False
49. An environmental reduce their consumpt			ners in developed countries to rethink and
	a.	True	
	b.	False	
ANSWER:			True
50. Natural capital deg	gradation is a by-prod	duct of economic development.	
	a.	True	
	b.	False	
ANSWER:			True
51. Poverty, pollution, environmental problem		d degradation of biodiversity are the	ne major causes of most current
	a.	True	
	b.	False	

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ANSWER:			False
52. Most pollution fro be spread over vast dis			rial areas, although this pollution can also
	a.	True	
	b.	False	
ANSWER:			True
53. When a non-renew	vable resource is com	npletely exhausted, it is referred to as	economically depleted.
	a.	True	
	b.	False	
ANSWER:			False
54. Pollution cleanup corresponding improv		-term solution if population and consontrol technology.	numption levels grow without
	a.	True	
	b.	False	
ANSWER:			True
55. Rapid population g	growth and poverty a	are reflective of developing countries	and have little impact on pollution.
	a.	True	
	b.	False	
ANSWER:			False
	• •	on rather than on pollution cleanup band generally costs less in the long re	•
	a.	True	
	b.	False	
ANSWER:			True
57. Developing countr	ries have an increase	in premature deaths primarily becau	se of malnutrition.
	a.	True	
	b.	False	
ANSWER:			False
58. Overall, the air qua	ality is poorer and dr	inking water more polluted today that	an in the 1970s.
1	a.	True	
	b.	False	
ANSWER:			False
	s solar energy that is	renewed continuously is a called a(n	resource.
ANSWER:		perpetual	
60		economic development p	romotes beneficial and benign economic
activities while discou	ıragıng environmenta	ally harmful economic activities.	

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ANSWER:	Environmentally sustainable	
but may not be practice ANSWER:	is a possible solution to the problem of cal for global common resources. Private ownership	of people exploiting a free-access resource
62. Non-renewable re <i>ANSWER:</i>	sources include resources such as oil a en	nd natural gas that cannot be recycled.
63grows to enormous nu ANSWER:	growth increases at a constant rate per unit time ar ambers as additional growth continues to be added to the exponential	nd may appear to start slowly, but it soon earlier growth.
64. A chemical dumps ANSWER:	site would be an example of a point source	pollutant.
65. Population (P) × C Environmental impact ANSWER:	Consumption per person (affluence, A) ×t of population (I). Technological impact per unit of consumption (T)	=
66. Societies consistin	ng of populations with exponential growth may exceed the and thus be unsustainable.	area's
ANSWER:	carrying capacity	
67. If you have more tanswer:	than five credit cards and shop when you are depressed, yo affluenza	ou may have
ANSWED.	wild animals, and fertile soil are examples ofrenewable resources	.
69. A social movemen	nt dedicated to protecting the earth's life support system for	or all living things is called
ANSWER:	environmentalism	
70. Canada and Spain <i>ANSWER:</i>	almost went to war over	fîsh
71. Food, water, shelt <i>ANSWER:</i>	er, and manufactured goods are resources	used to meet human needs and wants.
72. The consequence ANSWER:	of volcanic eruptions and burning coal is pollution	·
73. The old drink bott <i>ANSWER</i> :	eles that were collected, washed, and refilled are an examp	le of reuse
	urtains in a construction site is an example of	 Page 10

	e:
BLEMS: AN INTRODUCTION	ON AND OVERVIEW
tion prevention	
which proposes a threat	to their ability to become
low GDP	
ampsite is an example ofpollution	
ources are not owned by a single per	son or organization but are degraded
	low GDP ampsite is an example of pollution purces are not owned by a single per

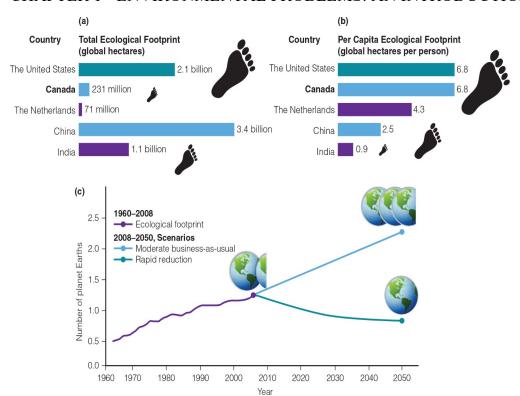
79. Based on the above graph, how might the disproportionate use of resources by developed countries be reduced?

— less dependence on fossil fuel ANSWER:

- change from a "throw-away" philosophy
- decrease waste of resources, etc.

Figure 1-7

CHAPTER 1 - ENVIRONMENTAL PROBLEMS: AN INTRODUCTION AND OVERVIEW



- 80. What is the percent difference between humanity's ecological footprint and Earth's ecological capacity? *ANSWER*: 50% as of 2008, and the percentage is growing
- 81. What will happen if humanity's ecological footprint continues to be greater than 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.
- 82. How does Canada's ecological footprint compare to that of the Netherlands?

ANSWER: Canada's ecological footprint is over three times as high.

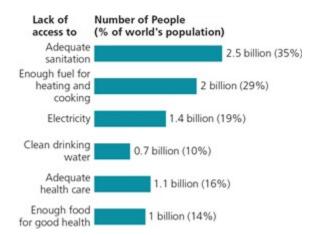
83. What does the difference in ecological footprint between India and the Netherlands mean?

ANSWER: India's overall effect on the environment is more severe than that of the Netherlands.

Figure 1-10

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		٥.
		C.

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84. What is the percentage of the world's population that does not have adequate sanitation?

ANSWER:

35

85. Considering that access to clean drinking water and adequate sanitation are required for health, what percentage of the problems illustrated in Figure 1-10 represent direct health-related problems?

ANSWER: (2.5 + 0.7 + 1.1 + 1.0) / 8.7 = 61%