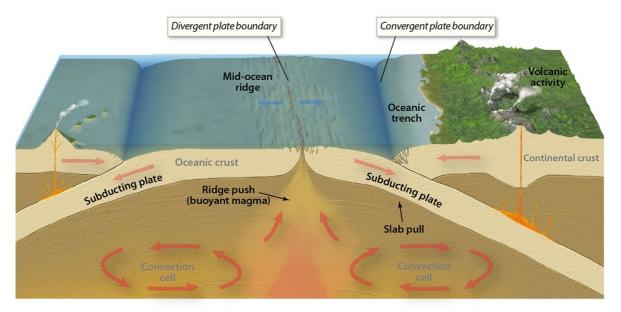
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Name	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.	
<ul> <li>1) What is the theory of plate tectonics?</li> <li>A) The number of tectonic plates equals the number of continents on Earth.</li> <li>B) Earth's continents are moving closer together.</li> <li>C) Earth is made up of a large number of geological plates that move slowly across its surface.</li> <li>D) Human activities are changing Earth's surface.</li> <li>E) Earth was created 6,000 years ago.</li> </ul>	1)
Answer: C Topic/Section: 1 Geology: A Restless Earth Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface.	
<ul> <li>2) What geologic structure is created when one tectonic plate dives below another?</li> <li>A) continental crust</li> <li>B) ocean trenches</li> <li>C) subduction zone</li> <li>D) divergent plate boundary</li> <li>E) convergent plate boundary</li> </ul>	2)
Answer: C Topic/Section: 1 Geology: A Restless Earth	

Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface.



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- A) ocean trenches
- B) convection cells
- C) subducting plate
- D) mid-ocean ridge
- E) continental crust

Answer: B

Topic/Section: 1 Geology: A Restless Earth

Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface.

4) Which of the following features is created at a divergent plate boundary?

4)

- A) oceanic trench
- B) subduction zone
- C) mountain building at the margin of the continent
- D) continental crust
- E) rift valleys

Answer: E

Topic/Section: 1 Geology: A Restless Earth

Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface.

5) The deepest trenches in the world exceed what depth?

5)

- A) 250,000 feet
- B) 15,000 feet
- C) 35,000 feet
- D) 25,000 feet
- E) 50,000 feet

Answer: C

Topic/Section: 1 Geology: A Restless Earth

Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface.

6)	The Himalayas are a prime example of which feature?	6)	
	A) rift valley		
	B) convergent boundary		
	C) transform fault		
	D) divergent boundary		
	E) subduction zone		
	Answer: B		
	Topic/Section: 1 Geology: A Restless Earth		
	Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface.		
7)	Which of the following locales will feature subduction zones?	7)	
.,	A) East Africa	٠, .	
	B) the Himalayan Mountains		
	C) Iceland		
	D) Pangea		
	E) the Pacific Coast of South America		
	Answer: E		
	Topic/Section: 1 Geology: A Restless Earth		
	Learning Outcome: 2.2 Identify on a map those parts of the world where earthquakes and volcanoes are		
	hazardous to human settlement.		
g١	Which of the following is NOT created along convergent plate boundaries?	8)	
U)	A) mountain ranges and active volcanoes	٠,	
	B) a subduction zone		
	C) rift valleys		
	D) the world's most powerful earthquakes		
	E) deep trenches		
	·		
	Answer: C Topic/Section: 1 Geology: A Restless Earth		
	Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface.		
	Economy Control 2.1 Describe these aspects of tectorine plate theory responsible for shaping Earth's surface.		
٥)	An example on Earth of a rift valley is	9)	
")	A) the Red Sea between northern Africa and Saudi Arabia	"	
	B) the Mariana Trench		
	C) Iceland		
	D) the San Andreas fault of California		
	E) the Andes Mountains of South America		
	•		
	Answer: A		
	Topic/Section: 1 Geology: A Restless Earth Learning Outcome: 2.2 Identify on a map those parts of the world where earthquakes and volcanoes are		
	hazardous to human settlement.		
	Nazar dodo to naman ostronom		
10)	The San Andreas Fault, traversing coastal California, forms what type of plate boundary?	10)	
10)	A) subduction zone	10)	
	B) transform fault		
	C) colliding plate boundary		
	D) divergent plate boundary  E) divergent plate boundary and subduction zone		
	E) divergent plate boundary and subduction zone		
	Answer: B		
	Topic/Section: 1 Geology: A Restless Earth		
	Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface.		

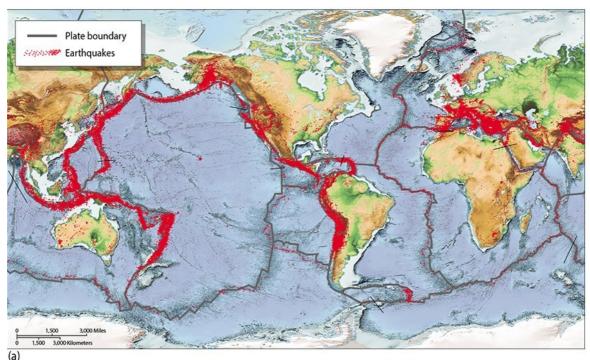
11) Pangaea was 11) \_\_\_\_\_

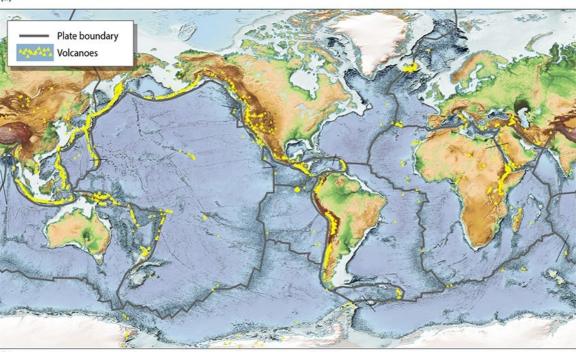
- A) a deep ocean trench created by colliding plates.
- B) a supercontinent centered on present-day Africa.
- C) an area of active earthquakes and volcanoes.
- D) an area of colliding plates that formed the Himalaya Mountains.
- E) the divergent plate that created the Rocky Mountains in North America.

Answer: B

Topic/Section: 1 Geology: A Restless Earth

Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface.





(b)

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- A) at the edges of oceans
- B) in the higher latitudes
- C) around the equator
- D) along tectonic plate boundaries
- E) The location is random.

Answer: D

hazardous to human settlement. 13) \_\_\_\_\_ 13) Which chain of volcanic islands are far removed from a plate boundary? A) Japan B) Iceland C) Hawaii D) Philippines E) Indonesia Answer: C Topic/Section: 1 Geology: A Restless Earth Learning Outcome: 2.2 Identify on a map those parts of the world where earthquakes and volcanoes are hazardous to human settlement. 14) 14) Which of the following statements is FALSE about volcanoes? A) volcanoes are an excellent source of geothermal energy B) volcanoes are found in site-specific places on Earth, most notably along plate boundaries C) volcanism may provide tourism revenue due to the scenic beauty of the landscape D) volcanoes tend to generate very poor soils for agriculture E) volcanoes usually provide an array of warnings before they erupt, thus minimizing the loss of life should humans heed the warnings Answer: D Topic/Section: 1 Geology: A Restless Earth Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface. 15) Haiti's 2008 earthquake resulted in over 230,000 deaths whereas Japan's 2011 earthquake resulted 15) in 20,000 deaths. What explains the differences in loss of life? A) effectiveness of search and rescue operations and local building standards B) effectiveness of search & rescue operations C) strength of the earthquake D) in Haiti there was also a tsunami that followed the earthquake E) local building standards Answer: A Topic/Section: 1 Geology: A Restless Earth Learning Outcome: 2.2 Identify on a map those parts of the world where earthquakes and volcanoes are hazardous to human settlement. 16) 16) The trapping of solar radiation in Earth's lower atmosphere A) began with humans' use of fossil fuels. B) began with humans' use of fossil fuels and has no benefits. C) is called the greenhouse effect. D) has no benefits. E) is entirely anthropogenic. Answer: C Topic/Section: 2 Global Climates: Adapting to Change

Learning Outcome: 2.2 Identify on a map those parts of the world where earthquakes and volcanoes are

Topic/Section: 1 Geology: A Restless Earth

Learning Outcome: 2.4 Define the greenhouse effect and explain how it is related to anthropogenic climate

17) It the greenhouse effect did not exist, what would happen to earth:	17)
A) Our environment would be greatly improved.	
B) Earth would be too wet to support life as we know it.	
C) Earth would be much too hot to support life as we know it.	
D) Earth would be too cold to support life as we know it.	
·	
E) It would make no difference.	
Answer: D	
Topic/Section: 2 Global Climates: Adapting to Change	
Learning Outcome: 2.4 Define the greenhouse effect and explain how it is related to anthropogenic climate	
change.	
18) Which of the following is NOT one of Earth's climate controls?	18)
A) incoming solar energy	
B) land-water heating differences	
C) longitude	
D) latitude	
E) global pressure systems and wind patterns	
Answer: C	
Topic/Section: 2 Global Climates: Adapting to Change	
Learning Outcome: 2.3 List the factors that control the world's weather and climate.	
Estiming Outsome. 2.6 2.5t the factors that some of the World's Weather and Similato.	
19) A maritime climate is characterized by	19)
<del>-</del>	
A) mild summers.	
B) mild winters.	
C) cold winters.	
D) hot summers.	
E) mild summers and mild winters	
Answer: E	
Topic/Section: 2 Global Climates: Adapting to Change	
Learning Outcome: 2.3 List the factors that control the world's weather and climate.	
Learning Outcome. 2.5 List the factors that control the world's weather and chinate.	
20) The Inter-Tropical Convergence Zone is most found straddling the	30)
20) The Inter-Tropical Convergence Zone is most found straddling the	20)
A) Arctic Circle	
B) Antarctic Circle	
C) Equator	
D) Tropic of Capricorn	
E) Tropic of Cancer	
Answer: C	
Topic/Section: 2 Global Climates: Adapting to Change	
Learning Outcome: 2.3 List the factors that control the world's weather and climate.	
Learning Outcome. 2.3 List the factors that control the world's weather and chinate.	
24) The constallar and a constant and	24)
21) The world's pressure systems are responsible for	21)
A) a greater intensity of solar energy at the equator.	
B) warm, rainless summer of Mediterranean climates.	
C) severe winters in interior regions.	
D) mild summers/winters along coasts and severe winters in interior regions.	
E) mild summer and winter temperatures along coast lines.	
Answer: B	
Topic/Section: 2 Global Climates: Adapting to Change	
Learning Outcome: 2.3 List the factors that control the world's weather and climate.	
Learning Outcome. 2.3 List the factors that control the world's weather and chimate.	

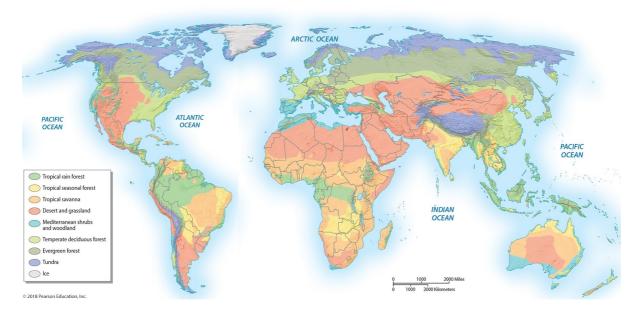
22)	Which of the followin	g places will have	e the greatest annua	I difference between	summer and winter	22)	
	temperatures?	15 1 (000) 100					
	-	·		niles from Pacific coa	st		
			_	m the Atlantic coast			
		· ·	. •	eographic center of N	North America		
			ated on the Atlantic				
	E) San Francisco, C	alifornia (38°N, 1	20°W), located on the	ne Pacific coast			
	Answer: C						
	Topic/Section: 2 Global						
	Learning Outcome: 2.3	List the factors tha	at control the world's	weather and climate.			
23)	If all climatic controls	except latitude w	vere held constant w	hich of these cities w	ould be warmest?	23)	
_0,	A) Wasilla, Alaska	•					
	B) Cape Town, Sou						
	C) Paris, France at a						
	D) Singapore at abo						
	E) Punta Arenas, C						
	Answer: D						
	Topic/Section: 2 Global	Climates: Adaptir	ng to Change				
	Learning Outcome: 2.3	List the factors tha	at control the world's	weather and climate.			
24)	Tropical winds genera	ally blow in whic	h direction in both h	emispheres?		24)	
,	A) from north to so	•		'		′ —	
	B) from south to no						
	C) from west to eas						
	D) from east to wes						
	•		ctions in the tropics				
	Answer: D	vannig vinia an s					
	Topic/Section: 2 Global	Climates: Adaptin	ng to Change				
	Learning Outcome: 2.3			weather and climate.			
25/	. Favotarial regions are				o'r flour	25)	
25)	Equatorial regions are	e characterized by	a pressur	e system and	air flow	25)	
	A) low, ascending						
	B) high, ascending						
	C) high, descending	•					
	D) low, descending						
	E) neutral, no						
	Answer: A						
	Topic/Section: 2 Global		-				
	Learning Outcome: 2.3	List the factors tha	at control the world's	weather and climate.			
26)	Using the environmer	ntal lapse rate of 3	3.5°F/1000 feet, if vo	u have a surface temi	perature of 77.5°F at	26)	
-,	sea level and go hikin	•	_	-		· ,	
	temperature be at that	-		•			
	A) 0°F	B) 60°F	C) 67°F	D) 88°F	E) 73.5°F		
	Answer: C	,	,	,	•		
	Topic/Section: 2 Global	Climates: Adaptin	ng to Change				
	Learning Outcome: 2.3		-	weather and climate.			

27) The movement of air over a mountain range, causing it cool (and possibly rain) as it gains elevation	27)	
is known as		
A) convection		
B) orographic		
C) dynamic		
D) convergence		
E) climatic		
Answer: B		
Topic/Section: 2 Global Climates: Adapting to Change		
Learning Outcome: 2.3 List the factors that control the world's weather and climate.		
28) The long-term average from daily weather measurements is	28)	
A) weather.	20)	
B) global warming.		
C) climate.		
D) insolation.		
E) climograph.		
Answer: C		
Topic/Section: 2 Global Climates: Adapting to Change Learning Outcome: 2.3 List the factors that control the world's weather and climate.		
Learning Outcome: 2.3 List the factors that control the world's weather and chinate.		
20) The constant and the African continue to the African continue to the conti	20)	
29) The equatorial regions of the African continent are dominated by which two climate categories?	29)	
A) Aw/Cs — tropical savanna and Mediterranean		
B) ET/EF — tundra and ice cap		
C) Af/Ca — tropical rainy and humid subtropical		
D) Af/Aw — tropical rainy and tropical savanna		
E) BS/BW — steppe and desert		
Answer: D		
Topic/Section: 2 Global Climates: Adapting to Change		
Learning Outcome: 2.3 List the factors that control the world's weather and climate.		
30) Cape Town, South Africa at about 34° south latitude, has what type of climate?	30)	
A) Cs — Mediterranean		
B) Af — Tropical rainy		
C) Aw — Tropical savanna		
D) BW — Desert		
E) ET — Tundra		
Answer: A		
Topic/Section: 2 Global Climates: Adapting to Change		
Learning Outcome: 2.3 List the factors that control the world's weather and climate.		
31) Anthropogenic pollution is caused by	31)	
A) anthropologists.		
B) animals.		
C) people.		
D) climate.		
E) rocks.		
Answer: C		
Topic/Section: 2 Global Climates: Adapting to Change		
Learning Outcome: 2.4 Define the greenhouse effect and explain how it is related to anthropogenic climate		
change.		

32)	Computer models	predict that averag	je global temperature	s will increase	by 2020.	32)
-	A) 1°F.	В) 10°F.	C) -2°F.	D) 3.6°F.	E) 4°F.	
	Answer: D	•	·	•	·	
	Topic/Section: 2 Glo	hal Climatos: Adant	ing to Chango			
			house effect and explai	n how it is related to	anthronogenic climate	2
		change.	nouse effect and explai	ii now it is related to	antin opogeme emmati	,
		oriarigo.				
22)	VANDA STATE OF THE					22)
33)	·	gas is closely link	ed to the greenhouse	effect?		33)
	A) methane					
	B) chlorofluoroc					
	<ul><li>C) nitrous oxide</li></ul>					
	<ul><li>D) carbon dioxic</li></ul>	de				
	E) ozone					
	Answer: D					
	Topic/Section: 2 Glo	bal Climates: Adapt	ing to Change			
			house effect and explai	n how it is related to	anthropogenic climate	Э
	•	change.	•		1 3	
		· ·				
34)	At Kyoto in 1007 y	what did the 30 Me	stern industrialized o	ountries legally agr	no to do?	34)
34)	=			ournines legally agri	ce to do:	
			gases to 1990 levels			
		a for exceeding its				
	•		nine the cause of clim	ate change		
	,	mit greenhouse gas				
	E) reduce emiss	ions of greenhouse	gases by half			
	Answer: A					
	Topic/Section: 2 Glo	bal Climates: Adapt	ing to Change			
	Learning Outcome:	2.5 Summarize the n	najor issues underlying	the international eff	orts to address climate	9
		change.				
35)	The rich diversity of	of plants and anima	als on Earth is known	as		35)
,	A) bioregion.	•				, <del></del>
	B) biore.					
	C) biogeography	ı				
	D) bionicle.	, .				
	E) biosdiversity					
	Answer: E					
			ty: The Globalization o			
	Learning Outcome:	2.7 Name some threa	ats to Earth's biodivers	ity.		
36)	An assemblage of I	ocal plants, animal	s, and insects coverir	ng a large area such	as a tropical	36)
	rainforest or a gras	sland is called a				
	A) bionicle.					
	B) biogeography	<b>/</b> .				
	C) bioregion.					
	D) biosphere.					
	E) biore.					
	Answer: C					
		cogione 9. Diodiversi	ty: The Globalization o	of Maturo		
			and describe the chara		ition of the world's ma	ajor

bioregions.

37)	Tropical savanna b	ioregions are foun B) Cs	nd in which climate ty C) Am	ype? D) BW	E) Aw	37)
	Answer: E Topic/Section: 3 Bio Learning Outcome:	, regions & Biodivers	ity: The Globalization	,	ŕ	jor
38)	Learning Outcome:	forest rests slands ests regions & Biodivers	ity: The Globalization	of Nature acteristics and distribut	tion of the world's ma	38)jor
39)	A) evergreen for B) evergreen for C) temperate de D) tropical rain E) tropical rain Answer: D Topic/Section: 3 Bio	rest, tundra and ice rest, tropical rain fo ciduous forest, tro forest, tropical sav forest, desert and t regions & Biodivers	orest and desert pical rain forest and anna and desert undra ity: The Globalization		tion of the world's ma	39)jor
40)	C) exclusively in D) in polar latitu E) in lower to m Answer: E Topic/Section: 3 Bio Learning Outcome:	uator regions in tropical n Africa and Asia udes id-latitudes in bot	regions of the world he more that hemispheres		tion of the world's ma	40)



- A) broadleaf or mixed broadleaf and coniferous forest
- B) tropical forests
- C) coniferous forest
- D) tundra
- E) Mediterranean woodland

Answer: B

Topic/Section: 3 Bioregions & Biodiversity: The Globalization of Nature

Learning Outcome: 2.6 Locate on a map and describe the characteristics and distribution of the world's major bioregions.

42) Where are most tropical rainforests located?

42)

- A) near the south pole
- B) in the middle latitudes
- C) near the equator
- D) near the north pole
- E) Their location is random.

Answer: C

Topic/Section: 3 Bioregions & Biodiversity: The Globalization of Nature

Learning Outcome: 2.6 Locate on a map and describe the characteristics and distribution of the world's major bioregions.

43) Where are grasslands most likely to occur?

43) \_\_\_\_

- A) tundra
- B) coniferous forests
- C) steppes
- D) temperate forests
- E) tropical forests

Answer: C

Topic/Section: 3 Bioregions & Biodiversity: The Globalization of Nature

Learning Outcome: 2.6 Locate on a map and describe the characteristics and distribution of the world's major bioregions.

44) With climate zone will have evergreen and deciduous forests?	44)
A) tropical monsoon	
B) humid subtropical	
C) tundra	
D) Mediterranean	
E) humid continental	
Answer: E	
Topic/Section: 3 Bioregions & Biodiversity: The Globalization of Nature	
Learning Outcome: 2.6 Locate on a map and describe the characteristics and distribution of the world's major bioregions.	
45) The immense pressure humans have placed on various global bioregions has given rise to what	45)
phenomenon?	
A) tree hybrids B) biodiversity	
C) increased precipitation	
D) old-growth forests	
E) novel ecosystems	
Answer: E Topic/Section: 3 Bioregions & Biodiversity: The Globalization of Nature	
Learning Outcome: 2.7 Name some threats to Earth's biodiversity.	
Estarring Satisfins. 2.7 Hams some timetis to Earth's bloarversity.	
46) The root systems of trees in tropical rain forests expand outward from the tree because	46)
A) the trees are very short and do not need deep roots.	
B) the ground temperatures in tropical forests are too high to allow for deep roots.	
C) there is a shortage of rainfall in the region tends to prohibit effective plant growth.	
D) the ground layer of vegetation in tropical forests is so thick so the roots extract nutrients from	
the vegetation.	
E) the mineral content of the soil is shallow and hence roots expand laterally rather than	
vertically to exploit the shallow nutrient layer.	
Answer: E	
Topic/Section: 3 Bioregions & Biodiversity: The Globalization of Nature	
Learning Outcome: 2.6 Locate on a map and describe the characteristics and distribution of the world's major	
bioregions.	
	>
47) In which bioregion at low latitudes has a climate in which rain falls for only a part of the year?	47)
A) Steppe	
B) Tropical Savanna	
C) Deciduous Forests D) Transcal Painforest	
D) Tropical Rainforest E) Mediterranean	
Answer: B Topic/Section: 3 Bioregions & Biodiversity: The Globalization of Nature	
Learning Outcome: 2.6 Locate on a man and describe the characteristics and distribution of the world's major.	

13

bioregions.

48)	Which of the following	ing forests are ma	ade up of cone-bearii	ng trees?		48)	
	<ul><li>A) deciduous</li></ul>						
	B) tropical savanı	na					
	C) polar						
	D) evergreen						
	E) tropical rain fo	rest					
	Answer: D						
		aions & Rindivers	ity: The Globalization	of Nature			
				acteristics and distribution	n of the world's m	naior	
	•	ioregions.					
49)	What percent of the	world's total spe	cies could be extinct l	by 2050?		49)	
.,,	A) 35%	B) 25%	C) 5%	D) 50%	E) 95%	.,,	
	ŕ	2) 2070	3, 373	2) 0070	2, 7070		
	Answer: D	aions 9 Diodivors	ity, The Clobalization	of Natura			
			ity: The Globalization ( eats to Earth's biodiver:				
	Learning Outcome. 2.	.7 Ivanic some tine	ats to Earth's bloarver.	orty.			
Ε0\	\\/\ \\					F0)	
50)	What percentage of			D) 00/	E) 000/	50)	
	A) 40%	B) 75%	C) 97%	D) 3%	E) 20%		
	Answer: D						
	Topic/Section: 4 Water						
	Learning Outcome: 2.	.8 Identify the caus	ses of global water stre	SS.			
51)	Groundwater account	nts for what perc	entage of Earth's fres	hwater?		51)	
	A) 97%	B) 3%	C) 75%	D) 20%	E) 30%		
	Answer: E						
	Topic/Section: 4 Water	er: A Scarce Resour	ce				
	Learning Outcome: 2.	.8 Identify the caus	ses of global water stre	SS.			
52)	What percentage of	Earth's freshwate	er is locked up in pola	ar ice caps?		52)	
·	A) 30%	B) 20%	C) 70%	D) 97%	E) 3%	·	
	Answer: C	ŕ	,	•	•		
	Topic/Section: 4 Water	er: A Scarce Resour	rce				
	•		ses of global water stre	SS.			
	•	,	•				
53)	What percentage of	Farth's freshwate	er is accessible in surf	ace rivers and lakes?		53)	
00)	A) 70%	B) 30%	C) 97%	D) 10%	E) 1%		
	ŕ	<i>D</i> ) 0070	0) 7170	<i>D</i> ) 1070	L) 170		
	Answer: E	ur. A Coorce Decour	-00				
	Topic/Section: 4 Water		ses of global water stre	99			
	Learning Outcome. 2.	o racinity the caus	ses of global water stre	33.			
г 4\	۱۸/۱۰، ما ماماد ما ماماد					Γ4\	
54)	Which global region	nas the highest of	overall water stress?			54)	
	A) Europe						
	B) Australia	_					
	C) North Africa	1					
	D) North Africa						
	E) Southeast Asia	l					
	Answer: D						
	Topic/Section: 4 Water						
	Learning Outcome: 2.	.8 Identify the caus	ses of global water stre	SS.			

55)	What percentage of th	e African popul	ation will likely expe	rience water stress b	y 2025?	55)	
	A) 10%	B) 75%	C) 95%	D) 25%	E) 50%		
	Answer: B						
	Topic/Section: 4 Water:						
	Learning Outcome: 2.8	Identify the cause	es of global water stress	S.			
- ^						<b>-</b> ()	
56)	The UN reports that h	ow many childr	en die each day from	unsafe water and la	ack of basic	56)	-
	sanitation?	D) 10000	C) 40000	D) 4000	E) 400		
	A) 100	B) 10000	C) 40000	D) 4000	E) 400		
	Answer: D	A C D	-				
	Topic/Section: 4 Water: Learning Outcome: 2.8			•			
	Learning Outcome. 2.0	ruentiny the cause	es of global water stres.	3.			
57)	The primary gatherers	of water in the	developing world ar	Δ		57)	
31)	A) young boys	or water in the	acveroping world an	C			-
	B) women and child	dren					
	C) small children of						
	D) able-bodied you						
	E) elderly people of	•					
	Answer: B						
	Topic/Section: 4 Water:	A Scarce Resource	e				
	Learning Outcome: 2.8			S.			
58)	What water policy, ad	vocated by the V	<b>Norld Bank and Inter</b>	national Monetary	Fund, has made it	58)	
	more difficult for som	e people to gain	access to water?				
	<ul><li>A) irrigation</li></ul>						
	B) government regu	ulation					
	C) privatization						
	D) the Kyoto Protoc		_				
	E) U.N Convention	on the Law of the	ne Sea				
	Answer: C						
	Topic/Section: 4 Water:						
	Learning Outcome: 2.8	Identify the cause	es of global water stress	S.			
E0)	Which of the following	a has NOT hoon	a result of the introd	uction of the Wella	MaterMheel in rural	59)	
39)	India?	g nas NOT been	a result of the introd	uction of the weno	vvater vvileer iii rurai	<sup>39)</sup>	-
		e number of hou	urs a week spent carr	ving water			
			blems among wome				
	C) an increase in fe	•	and in great in the				
	The state of the s	•	er available for agric	ulture			
	•		rate among young g				
	Answer: D	•	3, 33				
	Topic/Section: 4 Water:	A Scarce Resource	e				
	Learning Outcome: 2.8			S.			

60) Which of the following is a fossil fuel?	60)	
A) petroleum		
B) hydrogen/fuel cell		
C) ethanol		
D) nuclear energy E) wood		
·		
Answer: A Topic/Section: 5 Global Energy: The Essential Resource		
Learning Outcome: 2.9 Describe the world geography of fossil fuel production and consumption.		
61) Which of the following pairs are a renewable energy source?	61)	
A) wind and solar		
B) solar and natural gas		
C) wind and natural gas		
D) coal and wind		
E) hydrologic and oil		
Answer: A Topic/Section: 5 Global Energy: The Essential Resource		
Learning Outcome: 2.10 List the advantages and disadvantages of different kinds of renewable energy.		
62) What percent of the world's power is generated from renewable sources?	62)	
A) 7% B) 5% C) 10% D) 3% E) 20%		
Answer: C		
Topic/Section: 5 Global Energy: The Essential Resource		
Learning Outcome: 2.10 List the advantages and disadvantages of different kinds of renewable energy.		
62) Most of the world's power is generated by	63)	
63) Most of the world's power is generated by  A) hydropower.	03)	
B) coal.		
C) natural gas.		
D) oil.		
E) nuclear.		
Answer: D		
Topic/Section: 5 Global Energy: The Essential Resource		
Learning Outcome: 2.9 Describe the world geography of fossil fuel production and consumption.		
44) Fassil fuels	41)	
64) Fossil fuels  A) are evenly distributed around the world	64)	
B) comprise roughly 50% of current global energy needs		
C) include wind, solar and natural gas		
D) are linked to environmental damage, most notably the emission of greenhouse gases		
E) are a renewable energy source		
Answer: D		
Topic/Section: 5 Global Energy: The Essential Resource		
Learning Outcome: 2.9 Describe the world geography of fossil fuel production and consumption.		

<i>(</i> - <i>\</i>	_		c ''				
65)	Proven	reserves	of oil	are c	determ	ıned	bv

- A) the total of all oil deposits that have been mined.
- B) the estimated remaining deposits of the resources
- C) an estimate of oil deposits not yet discovered.
- D) identified areas of possible fossil fuels.
- E) deposits that are possible to mine and be distributed under current economic and technological conditions

Answer: E

Topic/Section: 5 Global Energy: The Essential Resource

Learning Outcome: 2.9 Describe the world geography of fossil fuel production and consumption.

#### 66) Hydraulic fracturing (fracking) is

A) a technique which forces oil and gas out of shale rock.

65)

66) \_\_\_\_

- B) a long-established technique of drilling for water that dates back centuries
- C) the use of cold fusion to produce nuclear power.
- D) an experimental technique for extracting oil from the ocean floor.
- E) a new technique of producing power using water.

Answer: A

Topic/Section: 5 Global Energy: The Essential Resource

Proven Reserves	World Share	Production	World Share	Consumption	World Share
Oil		Oil		Oil	
Venezuela	17.7%	Saudi Arabia	13%	United States	19.7%
Saudi Arabia	15.7%	United States	13%	China	12.9%
Canada	10.1%	Russia	12.4%	India	4.5%
Iran	9.3%	China	4.9%	Japan	4.4%
Iraq	8.4%	Iraq	4.5%	Brazil	3.2%
Coal		Coal		Coal	
United States	26.6%	China	47.7%	China	50%
Russia	17.6%	United States	11.9%	India	10.6%
China	12.8%	Australia	7.2%	United States	10.3%
Australia	8.6%	Indonesia	6.3%	Japan	3.1%
India	6.8%	India	7.4%	South Africa	2.2%
Natural Gas		Natural Gas		Natural Gas	
Iran	18.2%	United States	22%	United States	22.8%
Russia	17.3%	Russia	16.1%	Russia	11.2%
Qatar	13.1%	Iran	5.4%	China	5.7%
Turkmenistan	9.4%	Qatar	5.1%	Iran	5.5%
United States	5.6%	Canada	4.6%	Japan	3.3%
				Nuclear Energy	
				United States	32.6%
				France	17%
				South Korea	6.6%
				China	4.4%
				Canada	4%

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- A) Iraq
- B) Saudi Arabia
- C) Canada
- D) Venezuela
- E) Iran

Answer: B

Topic/Section: 5 Global Energy: The Essential Resource

<sup>1)</sup> If a country produces a large amount of the world's supply of oil, coal, or natural gas, yet it is not among the world's largest consumers of that energy source then one can assume they are a major energy exporter. Which countries on Table 2.1 fall into that category?

<sup>2)</sup> Conversely, if a country is one of the world leaders with a proven reserve of an energy source but is not a world leader in production of that energy source one can assume they're either not capable of high production and/or are banking those reserves for the future. Which countries fall into that category?

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				United States	32.6%
				France	17%
				South Korea	6.6%
				China	4.4%
				Canada	4%
ource: BP Statistics, 2015 (Ju	ine 2016)				

A) 20% B) 25% C) 5% D) 10% E) 50%

1) If a country produces a large amount of the world's supply of oil, coal, or natural gas, yet it is not among the world's largest consumers of that energy source then one can assume they

2) Conversely, if a country is one of the world leaders with a proven reserve of an energy source but is not a world leader in production of that energy source one can assume they're either not capable of high production and/or are banking those reserves for the future. Which countries fall into that category?

Answer: A

Topic/Section: 5 Global Energy: The Essential Resource

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				United States	32.6%
				France	17%
				South Korea	6.6%
				China	4.4%
				Canada	4%

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- A) Russia
- B) Qatar
- C) Iran
- D) Canada
- E) United States

Answer: E

Topic/Section: 5 Global Energy: The Essential Resource

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				France	17%
				South Korea	6.6%
				China	4.4%
				Canada	4%

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- A) Canada
- B) United States
- C) Russia
- D) France
- E) China

Answer: B

Topic/Section: 5 Global Energy: The Essential Resource

<sup>1)</sup> If a country produces a large amount of the world's supply of oil, coal, or natural gas, yet it is not among the world's largest consumers of that energy source then one can assume they are a major energy exporter. Which countries on Table 2.1 fall into that category?

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\_\_\_\_\_% of the global demand.

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Source: BP Statistics, 2015 (June 2016)

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- A) 11.9%, 26.6%
- B) 26.6%, 10.3%
- C) 10.3%, 26.6%
- D) 11.9%, 10.3%
- E) 26.6%, 11.9%

Answer: D

Topic/Section: 5 Global Energy: The Essential Resource

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- A) Russia and China
- C) Russia and the United States

- B) China and the United States
- D) India and the United States

Answer: B

Topic/Section: 5 Global Energy: The Essential Resource

Learning Outcome: 2.9 Describe the world geography of fossil fuel production and consumption.

73) What country generates almost all (95%) of its power from renewable sources?

73) \_\_\_\_\_

- A) Germany
- B) Iceland
- C) Denmark
- D) Sweden
- E) Great Britain

Answer: B

Topic/Section: 5 Global Energy: The Essential Resource

Learning Outcome: 2.10 List the advantages and disadvantages of different kinds of renewable energy.

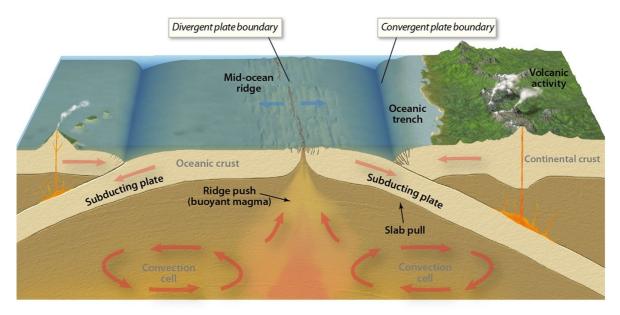
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<sup>2)</sup> Conversely, if a country is one of the world leaders with a proven reserve of an energy source but is not a world leader in production of that energy source one can assume they're either not capable of high production and/or are banking those reserves for the future. Which countries fall into that category?

74) What major industrial power currently generates 20% of its total energy budget from renewable	74)	
resources?	_	
A) Denmark		
B) Great Britain		
C) Germany		
D) United States		
E) China		
Answer: C		
Topic/Section: 5 Global Energy: The Essential Resource		
Learning Outcome: 2.10 List the advantages and disadvantages of different kinds of renewable energy.		
75\ The majority of Chinale renewable energy comes from	75)	
75) The majority of China's renewable energy comes from	75) _	
A) hydropower B) coal		
C) nuclear		
D) solar		
E) wind		
·		
Answer: A		
Topic/Section: 5 Global Energy: The Essential Resource Learning Outcome: 2.10 List the advantages and disadvantages of different kinds of renewable energy.		
Learning Outcome. 2.10 List the advantages and disadvantages of different kinds of reflewable energy.		
76) What is the primary reason that global energy demand is forecast to increase 40% by 2030?	76)	
A) Japan's increased energy usage	· -	
B) due to immigration, Europe's consumption of energy will rise		
C) the United States consumption of energy is predicted to increase dramatically		
D) the further industrialization of developing economies		
E) the movement away from fossil fuels to renewable energy sources will lead to more demand		
Answer: D		
Topic/Section: 5 Global Energy: The Essential Resource		
Learning Outcome: 2.9 Describe the world geography of fossil fuel production and consumption.		
77) The tropical location of Africa sitting astride the Equator makes it a prime location for the	77)	
expansion of which renewable energy industry?	'') _	
A) solar		
B) nuclear		
C) coal		
D) wind		
E) hydropower		
Answer: A		
Topic/Section: 5 Global Energy: The Essential Resource		
Learning Outcome: 2.10 List the advantages and disadvantages of different kinds of renewable energy.		
78) What is a problem with power generated by wind or sun?	78) _	
A) It can create power surges that endanger the power grid.		
B) Energy cannot be transferred from sunny or windy areas to other areas.		
C) It requires constant sun or wind.		
D) governments rarely give tax subsidies to renewable energy industries		
E) It results in extensive disruption of local power sources.		
Answer: A		
Topic/Section: 5 Global Energy: The Essential Resource		
Learning Outcome: 2.10 List the advantages and disadvantages of different kinds of renewable energy.		

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

79) Discuss the relationship between plate tectonics and the location of seismic activity around the world.



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Answer: Discussion should begin with a description of the forces that cause the movement of tectonic plates, then compare the map of plates with the map of seismic activity, noting that there is a strong correlation between the location of the edges of tectonic plates and the location of earthquakes and volcanoes.

Topic/Section: 1 Geology: A Restless Earth

Learning Outcome: 2.1 Describe those aspects of tectonic plate theory responsible for shaping Earth's surface.

80) What geologic hazards do humans face around the world? Discuss the reasons for differences in the experience of these geologic hazards around the world and also the potential benefits to humans from hazards such as volcanism.

Answer: Earthquakes and volcanoes are major geologic hazards to humans globally. However, the experience of groups globally varies in the midst of such events. For instance the 2008 earthquake in Haiti killed almost a quarter of a million people whereas the 2011 earthquake and tsunami in Japan killed about 20,000. These differences are affected by the standards for building in individual areas, how densely populated an area is, the types of houses people live in, and the effectiveness of local and regional search and rescue and relief organizations. Volcanic eruptions, although dangerous, have also been important to human settlement. Volcanoes are much easier to predict than earthquakes so loss of life tends to be lower. In addition, geothermal activity generated by volcanism can be captured as a renewable energy source (as in Iceland). Volcanic ash may also enhance local soils, making them better for agriculture. Finally, many local economies benefit from tourist revenue generated by the draw of scenic volcanic landscapes.

Topic/Section: 1 Geology: A Restless Earth

Learning Outcome: 2.2 Identify on a map those parts of the world where earthquakes and volcanoes are hazardous to human settlement.

81) Please explain the major climatic controls and how they have an effect on meteorological conditions.

Answer: Climate controls are: Solar energy, latitude, interaction between land and water, global pressure systems, and global wind patterns.

Topic/Section: 2 Global Climates: Adapting to Change

Learning Outcome: 2.3 List the factors that control the world's weather and climate.

82) Describe orographic lifting, making certain to address the rain shadow effect in your response.

Answer: Orographic lifting requires the presence of a mountain range. A prevailing wind current is pushed up the side of a mountain. The air becomes cooler as it rises, eventually hitting a temperature where it condenses and comes down as precipitation. This side of the mountain is known as the windward (or wet) side of the mountain. The air eventually loses its moisture content and as it passes over the top of the mountain it begins the trip down the backside of the mountain. The air is now dense and dry and the backside of the mountain is known as the leeward side and sits in what is known as the rain shadow. It is not uncommon in parts of the world to have lush green vegetation on one side of a mountain and a barren desert moonscape on the opposite side.

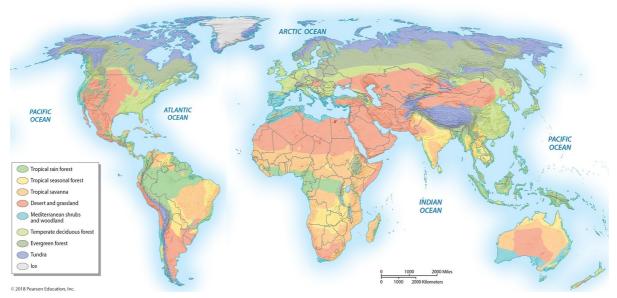
Topic/Section: 2 Global Climates: Adapting to Change Learning Outcome: 2.3 List the factors that control the world's weather and climate.

### 83) What are the major causes and effects of climate change?

Answer: Causes: increase of greenhouse gases (carbon dioxide, chlorofluorocarbons, methane, nitrous oxide). Effects: rising temperatures (2-4 degrees), shift in major agricultural areas, decrease in grain production, rising sea levels.

Topic/Section: 2 Global Climates: Adapting to Change Learning Outcome: 2.4 Define the greenhouse effect and explain how it is related to anthropogenic climate change.

## 84) Identify and discuss the pattern of bioregions on Earth.



Answer: Tropics: wet climates, including rainforests; to the immediate north and south: grasslands and deserts; middle latitudes: temperate forests (deciduous and conifer); high latitudes: tundra. These bioregions are intricately tied to such factors as latitude, rainfall, proximity to warm/cool ocean currents and elevation

Topic/Section: 3 Bioregions & Biodiversity: The Globalization of Nature Learning Outcome: 2.6 Locate on a map and describe the characteristics and distribution of the world's major bioregions.

85) In an essay discuss the concepts of water scarcity, water sanitation and water access.

Answer: Water scarcity refers to areas of the world where water shortages are common. As population increases, water problems will become even more acute. Clean water is unavailable for millions on the planet. Very high death rates exist in areas where people use polluted water for their daily needs. This toll is especially high for infants and children. Water access may not be difficult for people just because of water scarcity. Instead, many cannot access water because they must travel long distances to do so or because the water is too costly (privatization has made affordable water more of a problem).

Topic/Section: 4 Water: A Scarce Resource

Learning Outcome: 2.8 Identify the causes of global water stress.

86) Describe how the Wello Water Wheel has improved the lives of women in Rajasthan in rural India.

Answer: The collection and transport of water for household cooking and chores has long been the responsibility of women. Water stress has required women to travel increasingly further distances to find and transport water back to their village. The heavy jugs they carry can often cause chronic neck and back pain. The Wello Water Wheel enables women to transport water faster back to their villages. The results of the invention now free up time for young girls to attend school; studies have shown that the introduction of the Wello Water Wheel have improved female school attendance and literacy.

Topic/Section: 4 Water: A Scarce Resource

Learning Outcome: 2.8 Identify the causes of global water stress.

87) In an essay, discuss the environmental risks associated with hydraulic fracturing (fracking).

Answer: Fracking is a new way in which natural gas can be extracted from deep layers of shale. Critics of fracking point to a host of potential environmental problems. These include pollution of local groundwater supplies, the generation of earthquakes because of the movement of deep layers of rock and the tremendous amount of water which is needed to engage in the process of hydraulic fracking.

Topic/Section: 5 Global Energy: The Essential Resource

Learning Outcome: 2.9 Describe the world geography of fossil fuel production and consumption.

88) In an essay, discuss the most important sources of renewable energy and their potential drawbacks and benefits.

Answer: Hydroelectric, geothermal, tidal currents and biofuels are all potential renewable energy sources, but solar and wind power may be the most widely used renewable resource. Iceland is able to use geothermal energy to meet 95% of its power needs. Germany has invested heavily in solar energy and wind energy. Problems include the potential for power surges on particularly sunny and windy days. Most facilities must have a backup power source for times when it is not windy nor sunny. There may be considerable cost in upgrading existing power grids to handle these energy fluctuations. In addition, government subsidies for fossil fuels have traditionally made these much less expensive than renewable sources.

Topic/Section: 5 Global Energy: The Essential Resource

Learning Outcome: 2.10 List the advantages and disadvantages of different kinds of renewable energy.