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Chapter 2

Production Possibilities and Opportunity Costs

TRUE/FALSE

Answer: T Diff: 1	1.	Entrepreneurship is one of the factors of production.
Answer: T Diff: 1	2.	A tractor used in the fields by a farmer is an example of capital.
Answer: F Diff: 3	3.	Using robots on an assembly line is an example of an investment in human capital.
Answer: T Diff: 1	4.	Land is a resource category that includes timber growing on the land.
Answer: T Diff: 3	5.	If we move along a production possibilities curve and choose more of one type of good, the opportunity cost is measured in terms of the amount of the other good that is given up.
Answer: F Diff: 5	6.	All resources are assumed to be of equal quality when we draw a production possibilities curve that is bowed out.
Answer: F Diff: 3	7.	A wealthy economy is likely to choose to produce all consumption goods and no capital goods.
Answer: T Diff: 3	8.	If an economy is operating at a point inside its production possibilities curve, this reflects inefficient resource use.
Answer: F Diff: 3	9.	If all countries specialize in producing goods for which they have a comparative advantage, then total world output will be lower.
Answer: F Diff: 3	10.	The production of more capital goods this year means we must sacrifice the production of consumption goods in the future.
Answer: F Diff: 4	11.	To move along a production possibilities curve from one point to another requires additional resources.
Answer: T Diff: 3	12.	Unemployment or underemployment is shown by a point located inside the production possibilities curve.
Answer: T Diff: 2	13.	When resources are destroyed the production possibilities curve inward to the left.
Answer: F Diff: 4	14.	A country should always specialize in the production of any product for which it holds an absolute advantage.
Answer: T Diff: 2	15.	Innovation is the application of new technology to a production process.

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Answer: F Diff: 3	16.	Food in the pantry of a household is a resource.	
Answer: T Diff: 5	17.	The law of increasing costs causes the production po outward from the origin.	ossibilities curve to be bowed
Answer: F Diff: 4	18.	An increase in unemployment will cause this year's inward toward the origin.	production possibilities curve to shift
Answer: F Diff: 3	19.	Factors of production are resources used in the consu	umption of goods and services.
Answer: T Diff: 1	20.	Capital is a good used in the production of goods that	at households consume.
Answer: T Diff: 1	21.	The production possibilities curve shows the different produced with a set of given resources.	nt combinations of goods that can be
Answer: T Diff: 1	22.	The law of increasing costs states that the opportunit as more of the good is produced.	ty cost of producing a good increases
Answer: F Diff: 2	23.	The production possibilities curve shifts to the left w increase.	when resources in the economy
Answer: F Diff: 2	24.	Any point inside a production possibilities curve ind all its available resources and technology.	icates that the economy is using
Answer: F Diff: 1	25.	If resources are underemployed, then the economy is	s producing as much as possible.
Answer: T Diff: 1	26.	An economy is producing efficiently when all factor productive capacity.	rs of production are used in their most
Answer: T Diff: 2	27.	If Belgium has a comparative advantage over France production of beer, then it can produce beer at a low France.	
Answer: T Diff: 3	28.	The United States has an absolute advantage over M production of corn when it can produce corn using fe	

Exhibit B-1 below shows the quantity of thing-a-ma-jigs or truffala fruit that can be produced by each country, if all of its resources are devoted to that product.

Exhibit B-1

Product		Barbootland	Canary Island		
Coconuts		50	40		
Kiwi fruit		25	10		
Answer: T Diff: 1	29. In Exhib	In Exhibit B-1 Barbootland has an absolute advantage in the production of kiwi fruit.			
Answer: F Diff: 3	30. Referrin coconut	0	pootland has a comparative advantage in the pr	roduction of	

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Answer: T Diff: 3	31.	In Exhibit B-1 Canary Island has a comparative advacconduct.	antage in the production of
Answer: F Diff: 1	32.	Referring to Exhibit B-1, Canary Island has an absolute both coconuts and kiwi fruit.	lute advantage in the production of
Answer: F Diff: 2	33.	Canary Island, in Exhibit B-1, does not have a comp of either product.	parative advantage in the production
Answer: T Diff: 3	34.	Trade is possible because Canary Island's opportuni Barbootland's.	ity cost of coconuts is less than
Answer: F Diff: 1	35.	Trade is not possible because Barbootland has an ab both goods.	psolute advantage in the production of
MULTIPLE CHO	ICE		
Answer: C Diff: 3	1.	Referring to the information in Exhibit B-1, the opport a. 50 coconuts b. ¹ / ₂ coconuts c. 2 coconuts d. 25 coconuts e. 2.5	tunity cost of one kiwi fruit is
Answer: D Diff: 3	2.	 Canary Island's opportunity cost (examine Exhibit E a. 10 kiwi fruit b. 40 coconuts c. 4 kiwi fruit d. ¹/₄ kiwi fruit e. 4/5 kiwi fruit 	3-1) of coconuts is equal to
Answer: A Diff: 4	3.	 Given the data in Exhibit B-1 a. Canary Island should produce coconuts and trade w b. Canary Island should produce kiwi fruit and trade coconuts. c. Barbootland should produce coconuts and trade fruit. d. trade is not possible because Barbootland does a in producing either good. e. trade is not possible because Barbootland has an of both goods. 	de with Barbootland for e with Canary Island for kiwi not have a comparative advantage
Answer: C Diff: 2	4.	 Starting from point B in Exhibit B-2 (on the next payswimming helmets is a. 20 nose bands b. 5 nose bands c. 15 nose bands d. 3.75 nose bands e. indeterminate 	ge), the opportunity cost of 4 more
Answer: A Diff: 2	5.	As we move from point A to B, to C, and finally to I Increasing Cost is reflected by the fact that the oppo a. increases b. decreases c. remains constant d. changes sporadically e. is indeterminate Production Possibilities and Opportunity Costs	ortunity cost of swimming helmets

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	Exhibit B-2	
	Nose Bands 20 5 5 10 14 15 Swimming	 J Helmets
Answer: D Diff: 3	 6. Moving from point A to point B in Exhibit B-2 the ophelmet is a. 1 nose band b. 2 nose bands c. 4 nose bands d. 5 nose bands e. 8 nose bands 	pportunity cost of 1 swimming
Answer: C Diff: 2	 7. In addition to the items one must give up in order to a opportunity cost of smoking includes a. your enjoyment from smoking b. the health effects one places upon others c. your expected health effects and shortened life sp d. harassment from nonsmokers e. smoking cessation advertising on television 	
Answer: D Diff: 3	 8. Susan Sneed gave up her \$55,000 job at ACC, Inc. to She reduced her wardrobe to cheaper jeans and t-shir to make her family's \$1,200 per month home mortga a variety of inane comments about the stupidity of oli jobs to return to school. Which of the above items <i>is</i> opportunity cost of her return to college? a. her \$55,000 ACC, Inc. salary b. the altered wardrobe costs c. the \$5,000 tuition expense d. her family's \$1,200 per month mortgage expense e. psychological stress from inane comments 	ts, paid \$5,000 in tuition, continued ge payments, and bore the burden of der students giving up good paying <i>not needed</i> to determine the

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Answer: D Diff: 2	 9. Factors of production is another name for a. the goods produced in a production possibilities table b. the goods not produced in a production possibilities table c. the goods produced in international trade d. resources e. money 	3
Answer: D Diff: 2	 10. Labor resources include a. only physical exertion b. only the resources used in the production of other resour c. only skilled labor d. both physical and mental exertion e. the expenditure of people's effort in producing goods, but 	
Answer: B Diff: 2	 The two human factors of production are labor and mental exertion labor and entrepreneurship entrepreneurship and physical exertion labor and physical exertion entrepreneurship and mental exertion 	
Answer: C Diff: 3	 12. Which of the following is a capital resource? a. a new car bought by the Jones family b. a truck used in transporting school children to a soccer p c. a truck used in transporting steel to an automobile factor d. hamburger meat used to produce a juicy hamburger on a e. a sapling used to create a forest in a new national park 	у
Answer: E Diff: 2	 13. Which of the following is associated with the creation of hun a farmer buys more land a robot replaces a worker a worker replaces a robot a worker spends less time on the job a worker attends training classes 	nan capital?
Answer: C Diff: 1	 14. Factors of production do <i>not</i> include a. land b. labor c. money d. capital e. entrepreneurship 	
Answer: B Diff: 3	 15. A good example of land resources is a. a steel billboard on an interstate highway b. water c. wood-based furniture d. machinery made from iron ore e. buildings located on prime real estate 	
Answer: D Diff: 3	 16. The entrepreneur a. serves as a liaison between management and labor b. owns all of the factors of production c. allocates the risk and uncertainties of enterprise to others d. assumes the risk and uncertainties of enterprise e. earns more than labor 	3

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Answer: B Diff: 4	17.	 The activity involved in managing a firm is considered by economists to be a. land activity b. labor activity c. human capital activity d. entrepreneurial activity e. nonproductive activity 						
		I	Exhibit	B-3				
	ſ		А	В	С	D	E]
		Capital Goods	0	1	2	3	4	
		Consumption Goods	25	23	19	13	0	
Answer: D Diff: 1 Answer: B Diff: 2	18.	 Exhibit B-3 shows an economy's production possibilities table. If it chooses the combination of goods at point A, a. not all the available resources are being used b. all resources are used in the production of capital goods c. no consumption goods are being produced d. every resource in the economy is being used in the production of consumption goods e. no capital goods are being used as factors of production Exhibit B-3 shows an economy's production possibilities table. The first unit of capital goods will cost the economy units of consumption goods. a. 25 b. 2 c. 1 d. 23 						
Answer: D Diff: 3	20.	 Exhibit B-3 shows an economy's production possibilities table. As additional units of capital goods are produced, the quantity of consumption goods produced						
Answer: A Diff: 3	21.	1 -	nomy's p	roduction units of c	onsumpt	ties table	. The sec s, and the	third unit of

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Answer: C Diff: 5	22.	Exhibit B-3 shows an economy's production possibili capital goods are produced, the opportunity cost in ter consumption goods because of a. decreases; greater efficiency in production b. increases; decreasing opportunity cost c. increases; the law of increasing costs d. increases; greater efficiency in production e. decreases; the law of increasing costs	
Answer: D Diff: 2	23.	 The opportunity cost of going to a movie is a. the price of the movie b. number of hours you spend watching the movie c. expected gains you experience by watching the m d. the next best alternative that must be sacrificed in e. expected gains minus the expected cost of the movie 	n order to go to the movie
Answer: B Diff: 4	24.	 A production possibilities curve is downward sloping a. the law of increasing costs b. the finite nature of the resource base c. inefficiency d. improper output mix e. unemployment 	because of
Answer: A Diff: 5	25.	 The production possibilities curve is bowed outward f a. the law of increasing costs b. the finite nature of the resource base c. inefficiency d. improper output mix e. unemployment 	from the origin because of
		Exhibit B-4	
		Capital Goods Production	3
Answer: C	26.	In Exhibit B-4, which of the following could have cau	used the production possibilities

Answer: C Diff: 5

- 26. In Exhibit B-4, which of the following could have caused the production possibilities curve to shift from curve A to curve B?
 - a. a major natural disaster
 - b. an increase in consumption goods production this year
 - c. the use of newer and more productive technology
 - d. a decrease in unemployment
 - e. a decrease in consumption goods production this year

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Answer: A Diff: 5	27.	 In Exhibit B-4, which of the following could have can to shift from curve B to curve A? a. a major natural disaster b. an increase in resources c. the use of newer and more productive technolog d. a decrease in unemployment e. an improvement in literacy 	
Answer: D Diff: 3	28.	 The production possibilities curve demonstrates the a. economies are always efficient b. assuming full employment, supply will always c. assuming full employment, an economy is efficient agoods in a particular year is greater than in that year d. assuming full employment, to produce more of produce less of at least one other good e. the production of more consumption goods this capital goods this year 	determine demand cient only when the production of the production of consumption goods any one thing, the economy must
Answer: E Diff: 5	29.	 Which of the following describes the <i>vicious circle</i> of a. Because resources are limited, all economies evolutions of the long run, economies cycle between being c. For an economy to grow requires more consum capital goods, which means it will eventually be d. Due to excessive consumption, rich economies eventually become poor. e. Poor economies are poor because they do not provide the production of sufficient capital good. 	ventually become poor. g rich and being poor. ption goods, which requires less ecome poor. will destroy their resource base and roduce sufficient capital goods, and
		Exhibit B-5	

Answer: C Diff: 4 30. If two countries have the same production possibilities curve as shown in Exhibit B-5, but this year country A is located at point A on its PPC and country B is located at point B on its PPC, then country A

- a. is better off today than country B
- b. will grow at a faster rate than country B
- c. will grow at a slower rate than country B
- d. is producing more capital goods today than country B
- e. is more efficient today than country B

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	Exhibit B-6	
	Capital Goods	•
Answer: E Diff: 4	 31. In year 2003 the country of Exhibit B-6 was located at p production possibilities curve. In 2004 this country was production possibilities curve. Which of the following co production possibilities curve? a. more efficient production in 2003 b. greater use of resources in 2003 c. a natural disaster in 2003 which led to a destruction d. higher unemployment in 2003 e. the production of capital goods in 2003 increased its 	located at point B on its 2004 build have caused this shift in its of resources
Answer: B Diff: 3	 32. In year 2003- the country of Exhibit B-6 was located at production possibilities curve. In 2004 this country was production possibilities curve. This country a. is producing the same quantity of capital goods in b b. is producing the same quantity of consumption good c. had no economic growth between 2003 and 2004 d. had higher unemployment in 2003 than in 2004 e. had higher unemployment in 2004 than in 2003 	located at point B on its 2004 oth years
Answer: D Diff: 4	 33. In year 2003 the country of Exhibit B-6 was located at p production possibilities curve. In 2004 this country was production possibilities curve. This economy a. produces less of both goods in 2004 than in 2003 b. produces less of capital goods in 2004 than in 2003 c. is more efficient in 2004 than in 2003 d. experienced economic growth since 2003 e. had higher unemployment in 2004 than in 2003 	



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Answer: B Diff: 3	36.	 Exhibit B-8 (on the previous page) shows an econom production possibilities curve. Which of the followir a. This economy could produce more of both capit b. This economy is experiencing full employment. c. This economy could produce more capital good consumption goods produced. d. This economy could produce more consumption quantity of capital goods produced. e. Not every resource in this economy is being util 	ng statements is <i>false</i> ? tal and consumption goods. s without decreasing the quantity of n goods without decreasing the
Answer: E Diff: 2	37.	 Which of the following changes would <i>not</i> lead to a sipossibilities curve? a. the introduction and use in Canada of more adva b. a substantial emigration of Canadian workers to c. a prolonged summer drought in Canada's Prairie Canada's wheat harvest d. a sharp increase in the number of Canadians ear e.g., BA's, BS's, MD's and PhD's e. a change in the composition of Canada's output 	anced technology the U.S. e Provinces that destroys 18% of ning advanced degrees in education,
Answer: A Diff: 1	38.	If a resource is underemployed, it a. is being used in production, but not in its most p b. is essentially unemployed c. is not considered a productive resource d. cannot be used as a factor of production e. must be a labor resource	productive use
Answer: E Diff: 1	39.	 An example of an underemployed resource is a(n) a. farmer in Illinois who plants corn instead of who b. auto mechanic who is laid off from his job c. welfare recipient who doesn't work d. retired senior citizen who doesn't work e. person with a Ph.D. in chemistry who drives a tag 	
Answer: C Diff: 2	40.	 If a resource is unemployed, it a. is also underemployed b. is utilized, but not in its most productive employ c. is not utilized d. is not counted as a resource for the economy e. must be a labor resource 	yment
Answer: A Diff: 2	41.	 Which of the following would be an example of an u a. John has been laid off from his job as an auto m b. Betty, a computer specialist, takes a job as a hot c. Mary, a senior citizen, receives a social security d. Sam, 10 years old, is in the fifth grade. e. a 10-year-old computer is now only used as a we 	echanic. tel maid. r check.
Answer: E Diff: 5	42.	Consider a two-goods (capital and consumption) pro- year 2004. Which of the following pairs are assumed a. unemployment and capital goods production in the number of resources and consumption goods pro- c. composition of the economy's output and numb d. capital and consumption goods production in the e. technology and number of resources in the year	d fixed in this scenario? the year 2004 oduction in the year 2004 er of resources in the year 2004 e year 2004

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Answer: D Diff: 3	b. prices that can be charged for capital and consumptic. combinations of prices and outputs that can be produced.d. combinations of goods the economy has the capacity	 a. combinations of resources the economy has the capacity to produce b. prices that can be charged for capital and consumption goods c. combinations of prices and outputs that can be produced d. combinations of goods the economy has the capacity to produce 		
	Exhibit B-9			
	spoop united mission D C D E Capital Goods	_		
Answer: C Diff: 4	 44. In Exhibit B-9, it can be inferred that a. point A is preferred to point B b. point A is preferred to point E c. point A is preferred to point D d. point B is preferred to point A e. point B is preferred to point C 			
Answer: D Diff: 3	 45. In Exhibit B-9, if the economy decides to locate at point a. this is its best choice because it is producing maximus b. this is its best choice because it is producing maximus c. it has not achieved full employment d. it could not sustain itself in the long run because its goods (presumably, this includes food) e. the economy has not achieved maximum efficiency 	um capital goods um consumption goods		
Answer: D Diff: 5	 46. In Exhibit B-9, the combination of goods given by point a. never be achieved by this economy b. be achieved today if the economy achieved full emp c. be achieved today if the economy achieved maximu d. not be achieved today e. be achieved today with the proper allocation of reso 	loyment m efficiency		
Answer: B Diff: 5	 47. In Exhibit B-9, which of the following is <i>not</i> true regardia. cannot be achieved by this economy today b. could be achieved today if the economy only achieved. could be achieved in the future with a larger resourced. could be achieved in the future with more productive. e. could be achieved in the future if the economy grow 	ed full employment e base e technology		

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Answer: E Diff: 4	 48. In Exhibit B-9, point H is a. achievable with today's resource base b. not achievable today because the economy has r c. not achievable today because the economy is no d. not achievable today because of resource undere e. not achievable today because of insufficient resource 	t at its maximum point of efficiency employment				
Answer: D Diff: 3	 49. In Exhibit B-9, point D a. is preferred to point A b. represents one point of maximum production for c. is not achievable this year because of limited rest d. could represent unemployment or underemployment e. is preferred to point H 	sources				
	Exhibit B-10					
	Sponting dots	al Goods				
Answer: E Diff: 5	 50. If the economy of Exhibit B-10 was located at point would know that a. it was impossible because it hasn't sufficient res b. the rate of unemployment increased c. consumption goods production increased, but ca d. its unemployment decreased, but at the expense goods production e. it has achieved full employment 	ources to make that move pital goods production decreased				
Answer: D Diff: 5	the following could have caused this movement?a. an advance in technologyb. an increase in the quantity of resourcesc. an increase in human capital, e.g., higher levels	 If the economy of Exhibit B-10 was located at point E but has moved to point F, which of the following could have caused this movement? a. an advance in technology b. an increase in the quantity of resources c. an increase in human capital, e.g., higher levels of education d. the productive use of previously unemployed resources 				
Answer: E Diff: 1	 52. Economic efficiency is defined in the text as a. the maximum production of consumption goods b. the maximum production of capital goods c. a balanced production of consumption and capit d. a maximum set of resources e. the absence of underemployment or unemployment 	al goods				

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Answer: D Diff: 2	53.	 Specialization refers to a. one person performing a wide variety of tasks b. labor replacing capital in production c. capital replacing labor in production d. limiting the number of tasks a resource performs e. performing all tasks with only one resource 					
Answer: D Diff: 3	54.	b. decreases inc. increases ind. increases in	n product n product n product n product	tion because tion because tion because	each resource more resources each resource l	e advanced technology becomes less productive s are being used becomes more productive productive than labor	
Answer: B Diff: 1	55.						
				Exhibit	B-11		
				Bread	Coffee		
			Xenia	10	5		
			Zava	8	2		
Answer: E Diff: 2	56.	 possibilities schedule shown in Exhibit B-11. Which statement is true? a. Zava has an absolute advantage in the production of both bread and coffee. b. Zava has an absolute advantage only in the production of bread. c. Xenia has an absolute advantage only in the production of bread. d. Xenia has an absolute advantage only in the production of coffee. 					
Answer: D Diff: 3	57.	 e. Xenia has an absolute advantage in the production of both products. Given the production possibilities schedule in Exhibit B-11 for Xenia, one coffee costs a. 1.5 bread b. 3.0 bread c. 0.5 bread d. 2.0 bread e. 2.5 bread 					
Answer: D Diff: 4	58.	 Which of the following statements is true of Exhibit B-11? a. Xenia has a comparative advantage in the production of both goods. b. Zava has a comparative advantage in the production of both goods. c. Xenia has a comparative advantage only in the production of bread. d. Xenia has a comparative advantage only in the production of coffee. e. Zava has a comparative advantage only in the production of coffee. 					
Answer: B Diff: 4	59.	 e. Zava has a comparative advantage only in the production of coffee. Which of the following statements is true of Exhibit B-11? a. Xenia should produce both bread and coffee and not engage in trade with Zava. b. Xenia should produce only coffee and trade with Zava for bread. c. Xenia should produce only bread and trade with Zava for coffee. d. Zava should produce only coffee and trade with Xenia for bread. e. Zava should produce both goods and not engage in trade with Xenia. Production Possibilities and Opportunity Costs — 38 					

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Answer: E Diff: 2	60.	 Which of the following statements is true of Exhibit B bread in Xenia costs a. 2 coffee b. 2 bread c. 10 coffee d. 5 coffee e. one-half coffee 	-11? Using domestic resources, one
Answer: E Diff: 5	61.	 A factor of production is the same as a. the amount of a good produced b. the price of a good c. a profit of a firm d. an opportunity cost e. a resource 	
Answer: B Diff: 2	62.	 The nonhuman factors of production are a. land and entrepreneurship b. capital and land c. capital and money d. money and land e. entrepreneurship and capital 	
Answer: D Diff: 3	63.	 To an economist, slave labor is a. distasteful, but still the most productive because n lower cost b. considered to be an unskilled labor resource c. a capital good, just as a piece of machinery d. not considered to be a labor resource because it in e. acceptable as long as a contract exists to address p 	volves coercion
Answer: A Diff: 2	64.	 A manufactured good used by labor to produce anothe a. capital b. a tangible form of a human resource c. a consumption good as long as it is used by labor d. a form of automation e. human capital 	er good is
Answer: E Diff: 3	65.	 All of the following are examples of capital <i>except</i> a. the robot used to help produce your car b. a computer used by your professor to write this exc. c. the factory that produces the costume jewelry you d. the inventory of unsold goods at your local hardw e. an uncut diamond that you discover in your backy 	u buy vare store
Answer: B Diff: 3	66.	 The silly clothes worn by a circus clown are an examp a. market inefficiency b. capital goods c. labor, if it is used by labor exclusively d. human capital e. entrepreneurship, if the clown becomes more created 	
Answer: D Diff: 1	67.	 Human capital is a. money used by an entrepreneur to build a busines b. another expression for slave labor c. a concept used by sociologists but not economists d. knowledge and skills acquired through education e. a robot 	

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Answer: C Diff: 2	68.	 Human capital can be increased by more a. robots aiding workers b. machinery produced with combinations of labor and of c. workers' education and experience d. factories built to accommodate workers e. oil discovered that can be used to power the capital the 	-		
Answer: E Diff: 2	69.	 Land includes all of the following <i>except</i> a. a virgin forest b. natural-state real estate c. oil under the oceans d. deposits of copper e. an irrigation system 			
Answer: A Diff: 5	70.	 Which of the following statements is <i>true</i>? a. Land is a natural-state resource. b. The quantity of land in planet earth can be varied. c. Harvested trees are considered to be land. d. Minerals and metals are not land resources. e. The oceans are not considered to be land. 			
Answer: D Diff: 2	71.	 The person who assumes the risks and uncertainties of bus a. a manager of the business b. an owner of the business c. an excellent example of human capital d. an entrepreneur e. key to production, but not a factor of production 	siness is		
Answer: C Diff: 3	72.	 The work of a firm's manager is a. entrepreneurship b. human capital c. labor d. more difficult and deserving of a higher reward than the e. essentially to assume risk and uncertainty 	the work of labor		
Answer: B Diff: 3	73.	 Entrepreneurs can delegate every one of the following tast a. hiring and training new employees b. assuming business risk and uncertainty c. supervision of the production process d. researching ideas for new products e. marketing the goods and services produced 	ks to labor <i>except</i>		
Answer: E Diff: 4	74.	The various combinations of goods that can be produced by available resources and technology efficiently is called a. limits to scarcity b. opportunity cost c. limited production d. capital accumulation e. production possibilities	by an economy using its		
Answer: C Diff: 3	75.	 A production possibilities curve shows the a. dollar costs of producing two different goods b. amounts of labor and capital needed to produce one g c. various combinations of goods that can be produced d. prices of different goods that are produced in an econ e. inefficient use of available resources and technology 			

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Answer: B Diff: 2	 76. Opportunity cost is measured by the a. dollars paid for the goods b. quantity of other goods given up c. value of the resources used d. technology used e. units of opportunity gained by having the 	e good
Answer: C Diff: 3	 77. Mikki works five hours at a video store the ni \$75, but her exam score is 10 points lower that and studied. Her opportunity cost of working a. five hours she worked b. \$75 she earned c. 10 points she lost on her exam d. time she could have spent studying e. zero, because she made an economic chool 	an it would have been had she stayed home is the
Answer: E Diff: 4	 78. When the opportunity cost of producing carrot then a. no more carrots will be produced b. resources are equally suited to the produced c. the production possibilities curve shifts in d. the production possibilities curve shifts on e. the law of increasing costs is in effect 	ction of carrots and to other goods nward
Answer: B Diff: 3	 79. What is the usual shape of the production pose a. upward-sloping b. bowed-out from the origin c. bowed-in from the origin d. a straight-line, downward-sloping curve e. U-shaped 	sibilities curve?
Answer: A Diff: 3	 80. The production possibilities curve has a negative and the producing more of one good means produce the efficiency declines as more of one good at the consumers want to buy more of a good at the decomes harder to find workers as more ended the law of increasing costs is violated 	ucing less of the other is produced s its price decreases
Answer: C Diff: 4	 81. The bowed-out-from-the-origin shape of the presources are a. equally well-suited to production of both b. not being used efficiently c. not always of equal quality and some are of good than others d. increasing as more of one good is produce e. of an increasingly inferior quality 	goods better suited to the production of one type
Answer: D Diff: 4	 82. Adding more resources to production causes a. a downward movement along the product b. the production possibilities curve to shift c. an upward movement along the producted d. the production possibilities curve to shift e. the production possibilities curve to become 	in toward the origin on possibilities curve out from the origin

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Answer: B Diff: 4	 83. If an economy keeps increasing its capital storpossibilities curve will a. remain unchanged but more capital good b. shift outward c. shift inward d. disappear because scarcity will eventuall e. remain unchanged, but production will or 	ls will be produced y be overcome
Answer: E Diff: 4	 84. Compare two economies A and B that start w Both are fully employed. Economy A choose capital goods, while economy B chooses 4 co- information suggests that a. economy A is producing less efficiently b. economy B is producing less efficiently c. economy A and economy B, although pr same rate because they are both fully em d. economy A's growth rate will be higher 	s to produce 6 consumption goods and 3 onsumption goods and 5 capital goods. This than economy B than economy A oducing different combinations, grow at the ployed

economy A's growth rate will be higher than economy B's e.





Answer: A Diff: 1

85. If the Exhibit B-12 economy produces no capital goods, what is the maximum quantity of consumption goods it can produce?

- 50 a.
- 48 b.
- 40 c.
- 25 d.
- e. 0

Answer: C Diff: 3

86. If the Exhibit B-12 economy moves from point L to point M, the opportunity cost of producing 10 more capital goods is

- 10 consumer goods a.
- 2 consumer goods b.
- c. 15 consumer goods
- d. 25 consumer goods
- 8 consumer goods e.

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Answer: D Diff: 2	87.	The Exhibit B-12 economy will experience the highest what point now? a. J b. K c. M d. N e. P	t economic growth if it chooses	
Answer: E Diff: 3	88.	In Exhibit B-12, inefficient resource use is shown by v a. N b. J c. Q d. L e. P	which of the following points?	
Answer: C Diff: 3	89.	 In Exhibit B-12, what can we conclude about point Q? a. It is efficient. b. It is inefficient. c. It is unattainable. d. It gives maximum future growth. e. It shows underemployed resources. 	2	
Answer: B Diff: 4	90.	 Poor economies may have difficulty growing because a. their production possibilities curves slope upward b. they cannot cut back on their production of consurproduction of capital goods c. they have a solid consumption base already in pla d. their resource bases are fully developed e. the law of increasing costs makes it hard to product 	mption goods to increase their ce	
Answer: D Diff: 1	91.	 An idea concerning production that eventually takes the technology is a. the scientific method b. robots c. increasing cost of new technology d. innovation e. human capital 	ne form of a new applied	
Answer: C Diff: 3	92.	 Technological innovations will cause a. production to increase but the production possibilities b. the production possibilities curve to shift to the left c. the production possibilities curve to shift to the right d. an economy to operate within its production possibilities e. production at a point above or exterior to the production 	ft ght ibilities curve	
Answer: E Diff: 4	93.	 The French production possibilities curve shifts to the a. a decrease in the French capital stock b. a decrease in the French labor supply c. high unemployment in France during the previous d. only consumer goods production in France during e. technological innovation in the production of Frence 	s period the previous period	
Answer: C Diff: 4	94.	 The Irish production possibilities curve shifts to the leta. an increase in the Irish labor supply b. innovation in the production of Irish goods c. a civil war that destroys much of Ireland's resource d. unemployment among Irish workers e. a choice among the Irish of more capital goods last 	ce base	

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Answer: D Diff: 3	95.	 War can be expected to do all of the following things a. reduce the labor supply b. reduce the capital stock c. shift the production possibilities curve inward d. reduce technological knowledge e. reduce roads, bridges, and railroad networks 	to an economy <i>except</i>
Answer: B Diff: 4	96.	 According to the text, Japan lost much of its capital strusted subsequently found that its a. production possibilities curve had shifted to the leaven until today, its prewar output levels, having (Hiroshima and Nagasaki still haven't recovered to production possibilities curve, having shifted to the use of the most up-to-date technology c. economy's productivity suffered irreversibly becar created a loss of skilled, scientific, and technologied. research efforts were hampered because victor conknowledge with it in retaliation for the war e. production possibilities curve remained unchange because international trade was reduced 	eft because it was unable to regain, lost so much of its capital resources from the 1945 atomic bomb attacks) he left, quickly recovered with the ause the enormous loss of life ical knowledge untries refused to share scientific
Answer: C Diff: 3	97.	 A point inside a production possibilities curve reflects a. the law of increasing costs b. technological innovation c. less than full use of resources and technology d. economic efficiency e. a way to increase future economic growth 	3
Answer: E Diff: 3	98.	 A point outside a production possibilities curve reflect a. efficiency b. specialization c. inefficiency d. unemployment e. an unattainable choice 	ts
Answer: A Diff: 1	99.	 Economists regard people who work below their poter a. underemployed b. unemployed c. as economically efficient as possible d. without human capital e. employed, but a contributor to long-run unemployed 	
Answer: C Diff: 2	100.	 The maximum possible production of goods and servi employment of the economy's resources is a. impossible to achieve b. an unrealistic goal seldom achieved c. economic efficiency d. a point above the production possibilities curve e. possible only if the production possibilities curve 	
Answer: D Diff: 2	102.	 The idea that labor productivity depends on the degree attributed to a. Hiro Yakamaya b. Stanley Jevons c. J. S. Mill d. Adam Smith e. Robinson Crusoe 	e of labor specialization is

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Answer: B Diff: 2	103.	specializat a. chicke b. pin fa c. baker d. blacks	<i>e Wealth of Nations,</i> Adam Smith described the concept of division of labor and alization by using an illustration of a visit to a hicken farm in factory akery lacksmith own hall				
Answer: E Diff: 1	104.	 In a one-person Robinson Crusoe economy, labor specialization a. can shift the production possibilities curve to the right b. is already present because Crusoe produces everything himself c. can decrease production of all types of goods d. cannot increase production e. is impossible 					
Answer: B Diff: 2	105.	 Labor specialization can increase production primarily because workers a. are now supervised more and so have to work harder b. become proficient when they specialize in what they do best c. have to work more hours to buy the things they want d. engage in competitive, rather than cooperative, production e. have to learn how to do every production-related task well 				kers	
Answer: D Diff: 3	106.	 Economy X has just one worker, while Economy Y has 100 workers. Both have the same capital and land resources and produce the same good. If labor specialization occurs in Economy Y, we would expect Economy Y to produce a. exactly the same quantity of goods as Economy X b. 100 times the quantity of goods as Economy X c. less than 100 times the quantity of goods as Economy X d. more than 100 times the quantity of goods as Economy X e. more inefficiently than Economy X 					
Answer: E Diff: 3	107.						
		Exhibit B-13					
		Production of Cheese and Eggs per 8-Hour Day					
				Production of Cheese	Production of Eggs		
			United States	3	8		
			France	9	2		

Answer: D Diff: 3

- 108. In Exhibit B-13 (on the previous page), which of the following statements is true?
 - a. France has an absolute advantage in eggs.
 - b. France has a more efficient economy.
 - c. The United States has a more efficient economy.
 - d. The United States has a comparative advantage in eggs.
 - e. Both countries have a comparative advantage in eggs and cheese.

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Answer: A Diff: 4	109.	 In Exhibit B-13, what will generate the greatest combination. The United States specializes in eggs and France France specializes in eggs and the United States sector. Both countries produce their own eggs and cheese Any combination of eggs and cheese will generate The United States should produce all the eggs and 	specializes in cheese. specializes in cheese. e. te the same output.
Answer: B Diff: 4	110.	 The rule guiding international specialization of production specialize in the production of the good a. for which it has the highest opportunity cost b. for which it has the lowest opportunity cost c. that it most wants to consume d. for which it has an absolute advantage e. that it can produce with the least quantity of capital 	
Answer: D Diff: 2	111.	 Which of the following are capital goods? a. land and raw materials b. all manufactured goods c. automobiles and houses d. factories and machinery e. all goods consumed by both firms and households 	S
Answer: A Diff: 2	112.	 Which of the following is an example of a capital goo a. an artificial Christmas tree used by a family year b. a sweater worn by a sixth grade student c. electricity used by a household to heat a swimmind. a pencil used by a shopper making out a grocery be. a shovel used by a construction worker 	after year ng pool
Answer: C Diff: 1	113.	 When economists use the term "factors of production, a. labor, capital, and money b. labor, capital, land and money c. labor, capital, land and entrepreneurship d. labor, land, money and entrepreneurship e. money and entrepreneurship 	," they mean
Answer: C Diff: 1	114.	 Human capital refers to a. manufactured goods that humans use in the product capital goods that enhance human abilities to product capital	duce goods education and training
Answer: E Diff: 3	115.	 Human capital is associated with a. a doctor charging lower-income patients less b. a doctor paying rent for the office c. a doctor's stethoscope d. a doctor's knowledge of political events e. a doctor's skills in the operating room 	
Answer: C Diff: 1	116.	 An entrepreneur a. is an employee working in a factory b. manages a factory c. conceives of and starts a business d. contracts to work for a specific price e. estimates the risks and uncertainties of business 	

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Answer: D Diff: 2	117.	 The opportunity cost of your college education is a. the cost of the textbooks you buy at the bookstore b. the grades you receive in your courses c. the actual dollar cost of your college education d. your best alternative use of the money you spend for a college education e. the income you earn while going to college 				
Answer: C Diff: 3	118.	 The law of increasing costs indicates that as more goods are produced, the dollar cost of producing those goods increases b. no matter how many goods you produce, costs tend to increase c. the opportunity cost of producing a good increases as more of the good is produced d. although total cost may increase as you produce more of a good, the opportunity cost of producing additional units of the good actually decreases e. because you are able to adopt greater division of labor when producing more goods, the opportunity cost of producing a good increases as less of the good is produced 				
			F		1	
			Produce Consumption	Capital	-	
			Good	Good		
			10 9 7 4 0	0 1 2 3 4		
Answer: A Diff: 2	119.	Consulting Exhibit B-14, the opportunity cost of increasing production of capital from 2 to 3 units is a. 3 units of consumption goods b. 4 units of consumption goods c. 6 units of consumption goods d. 7 units of consumption goods e. 9 units of consumption goods				
Answer: D Diff: 2	120.	 In Exhibit B-14, the opportunity cost of producing the fourth unit of capital is a. 0 b. 1 unit of consumption goods c. 2 units of consumption goods d. 4 units of consumption goods e. there is not enough information to estimate the opportunity cost 				
Answer: D Diff: 3	121.	the right?a. a declineb. a shift fromc. a civil wd. the development	 e. there is not enough information to estimate the opportunity cost Which of the following causes the world's production possibilities curve to shift to the right? a. a decline in the world's population due to AIDS b. a shift from capital goods to consumer goods production c. a civil war in Iraq, a major world producer of oil d. the development of a new technology that improves labor's productivity 			

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Answer: C 1 Diff: 4	 22. When Costa Rica's resources are not fully employed, the possibilities curve, the point representing its production a. somewhere outside (exterior to) the curve b. somewhere along the curve because it still has chor possibilities combinations c. somewhere inside (interior to) the curve d. on a new production possibilities curve that is close e. on a new production possibilities curve that is further that the there is a somewhere that is further that is	n position is located ice among those production er to the origin
Answer: C 1 Diff: 3	 23. An economy's production possibilities curve depicts dican be a. consumed by households in the economy since how resources b. consumed by firms in the economy since firms act c. produced in the economy with the available technol d. produced and consumed by firms since they are the economy e. bought and sold by both firms and households on the economy 	useholds are the suppliers of ually do the producing blogy and resources e sole source of production in the
Answer: B 1 Diff: 5	 24. The production possibilities curve encompasses all of t a. the law of increasing costs b. unlimited wants c. scarcity d. opportunity cost e. availability of resources 	he following concepts <i>except</i>
	Exhibit B-15	



Answer: D Diff: 4

125. Which points on the production possibilities curve of Exhibit B-15 are attainable with the resources and technology available?

- a. A, B, C, E, U
- b. A, B, C, D, W
- c. E, U, W
- d. A, B, C, D, U
- e. A, B, C, E

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Answer: C Diff: 2	126.	 Which points on the production possibilities curve of the resources and technology available? a. A, B, C, U b. A, B, C, D, U c. E, W d. B, C, D, U e. A, B, C, D 	Exhibit B-15 are unattainable with
Answer: E Diff: 3	127.	 Which points on the production possibilities curve of production points? a. A, B, C, U b. A, B, C, D, U c. E, U, W d. B, C, D, U e. A, B, C, D 	Exhibit B-15 are efficient
Answer: C Diff: 5	128.	 In Exhibit B-15, the opportunity cost in moving from a. is 4 units of consumption goods b. is 2 units of capital goods c. is zero units of capital goods d. is 5 units of capital goods e. cannot be estimated 	point U to point B
Answer: A Diff: 4	129.	In Exhibit B-15, which points on the production possi employment? a. A, B, C, D b. A, B, C, D, U c. E, U, W d. B, C, D, U e. A, B, C, U	ibilities curve represent full
Answer: B Diff: 2	130.	 The production possibilities curve depicts the combin a. viewed as creating international specialization, or other a second good b. produced with a given level of technology and se c. consumed with a given quantity of resources and d. produced with varying levels of unemployment of e. produced with varying levels of unemployment a 	ne country producing one good, the et of resources level of technology of resources
Answer: C Diff: 1	131.	Efficient production means producing a. less output when costs are high and more output b. at the lowest possible cost regardless of the quant c. at any point on the production possibilities curve d. no more than what society needs e. in excess of what society needs	tity of output
Answer: C Diff: 3	132.	The opportunity cost of producing a dining room table a. quantity of money required to produce the table b. quantity of money required to buy the table c. quantity of other goods that must be given up to p d. quality of the table e. use of lumber to produce the table	
Answer: A Diff: 1	133.	The economic problem associated with the idea of sca a. resources are limited but wants are insatiable b. wants are limited to the available resources c. resources are unlimited but wants are limited d. both resources and wants are limited e. both resources and wants are unlimited	arcity is that

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Answer: B Diff: 1	 134. The quantity of one good that is given up to produce and a. market value b. opportunity cost c. relative cost d. absolute cost e. nominal cost 	other is defined to be its
Answer: C Diff: 4	 135. If the Mexican economy is using all of its available resortant the Mexican economy is producing at a point a. located at one of the endpoints of the production possibilities curve b. beyond (exterior to) its production possibilities curve c. on its production possibilities curve d. inside (interior to) its production possibilities curve e. closer to the origin than its production possibilities 	ossibilities curve ve
Answer: E Diff: 1	 136. Which of the following is <i>not</i> true about a production per a. what combinations are attainable and unattainable b. efficient combinations of the goods produced c. which combinations are inefficient d. which combinations of goods and services can be per e. the actual combination produced 	
Answer: D Diff: 3	 137. When technological progress occurs, the production pose a. shifts inwards to the left b. becomes flatter in one end and steeper at the other end c. becomes steeper d. shifts outwards to the right e. does not change 	

Exhibit B-16

Production of Corn and Oil per 8-Hour Day

	Corn (millions of bushels)	Oil (millions of barrels)
Country A	160	80
Country B	120	120

Answer: A	138.	In Exhibit B-16, which of the following is true?		
Diff: 5		a. Country A has an absolute advantage in the production of corn.		
		b. Country B has an absolute advantage in the production of corn.		
		c. Country A has an absolute advantage in the production of oil.		
		d. Country B has an absolute advantage in the production of corn and oil.		
		e. Country A has an absolute advantage in the production of corn and oil.		
Answer: D	139.	In Exhibit B-16, which of the following is true?		
Diff: 5		a. Country A has an absolute advantage in the production of oil.		
		b. Country B has an absolute advantage in the production of corn.		
		c. Country A has a relative advantage in the production of oil.		
		d. Country B has a relative advantage in the production of oil.		
		e. Both countries have an absolute advantage in the production of corn.		

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Answer: D Diff: 5	 In Exhibit B-16, which of the following is true? a. Country A specializes in the production of oil. b. Country B specializes in the production of corn. c. Country A produces neither oil nor corn. d. Country B specializes in the production of oil. e. There are no gains from specialization. 	
Answer: A Diff: 2	 In Exhibit B-16, the opportunity cost to country A of production is a. 80 barrels of oil b. 120 barrels of oil c. 160 barrels of oil d. zero barrels of oil e. 40 barrels of oil 	oducing only corn during in one
Answer: B Diff: 3	 In Exhibit B-16, which of the following is true? a. Country A needs fewer resources to produce a giver b. Country A needs fewer resources to produce a giver c. Country B has a lower opportunity cost in the produce d. Country A has a lower opportunity cost in the produce e. Both countries will produce the same amounts of both 	n amount of corn than country B. action of corn. action of oil.
	Exhibit B-17	
	Production of Computers and Oil per 8-Hour	r Dav

Production of Computers and Oil per 8-Hour Day

	Computers (millions)	Oil (millions of barrels)
United States	10	100
Mexico	1	80

Answer: D Diff: 2	143.	 In Exhibit B-17, which of the following is true? a. Mexico only has an absolute advantage in the production of oil. b. Mexico only has an absolute advantage in the production of computers. c. Mexico has an absolute advantage in the production of both oil and computers. d. The United States has an absolute advantage in the production of both oil and computers. e. The United States only has an absolute advantage in the production of oil.
Answer: A Diff: 3	144.	 In Exhibit B-17, which of the following is true? a. The United States has the lower opportunity cost in the production of computers. b. The United States has a higher cost in the production of oil. c. The United States has the lower opportunity cost in the production of oil. d. The United States has the higher cost in the production of computers. e. The United States has the higher cost in the production of both oil and computers.
Answer: C Diff: 5	145.	 In Exhibit B-17, the opportunity cost of producing one million computers in the United States and in Mexico is a. 100 and 80 million barrels of oil, respectively b. 10 and 8 million barrels of oil, respectively c. 10 and 80 million barrels of oil, respectively d. 10 and 80 million computers, respectively e. 1 and 80 million barrels of oil, respectively

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Answer: E Diff: 5	146.	 In Exhibit B-17, if these countries decide to trade, w a. The United States will specialize in the product b. The United States will produce both goods. c. Mexico will specialize in the production of oil a d. Mexico will specialize in computers and the Ur e. Mexico will specialize in the production of oil. 	tion of oil. and computers. nited States will specialize in oil.
Answer: B Diff: 5	147.	 In Exhibit B-17, which of the following is true about a. The United States will specialize in the product b. The United States will specialize in the product c. Mexico will specialize in the production of oil a d. Mexico will specialize in computers and the Ur e. Mexico will specialize in the production of complexity of the production of the production	tion of oil. tion of computers. and computers. nited States will specialize in oil.
Answer: E Diff: 1	148.	 When economists talk about innovation, they refer to a. the relationship between growth and employme b. one of the basic problems in economics c. the relationship between technology and scarcity d. the relationship between growth and scarcity e. ideas that eventually take the form of new application 	ent ty
Answer: D Diff: 2	149.	 Which of the following factors causes economic groups a. a decline in capital goods production b. a loss of resources c. the production of more scarce goods d. a technological improvement e. the production of more consumer goods 	owth?
Answer: E Diff: 3	150.	 Which of the following is <i>not</i> an example of a capit a. a pencil sharpener in an office b. an oven in a pizza restaurant c. a sawing machine at a local lumber yard d. a computer in a business e. a teacher's ability to speak two languages 	al good?
Answer: D Diff: 2	151.	The opportunity cost associated with increasing U.S. the fact that a. national security is not a good b. there is no trade-off between national security a c. national security cannot be produced d. U.S. national security depends upon national se e. war is an inherent human activity	and other goods
Answer: A Diff: 5	152.	 The fact that U.S. national security depends upon w national security means that a. the U.S. may end up with less national security national security b. the U.S. should devote fewer resources to natio c. the U.S. should devote even more resources to desirable d. the U.S. can never be secure e. peace is an impossible dream 	even if it devotes more resources to

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Answer: B Diff: 5	153.	 In the context of production possibilities curve analyterrorist attack is to a. destroy as many resources as possible of a target own security. b. shift the curve inward of the targeted nation by u itself c. shift the targeted nation's possibilities curve to the opportunity cost of making a first striker d. eliminate the targeted nation's ability to counterate. e. force the targeted population to decrease its own 	ted nation in order to enhance its indermining its confidence to defend he right in order to increase the attack in case of war
Answer: E Diff: 4	154.	 Shifting resources from other goods to security good national security if a. the law of increasing opportunity cost is not app b. the economy is already at full employment c. the economy is not at full employment d. national security is already at its maximum e. other nations react to the shift by increasing their 	licable
Answer: A	155.	"Strike first" or initiating a war may be the appropria	te strategy for a nation if
Diff: 4	a.	it has a national security advantage which it believes	will be eroded in time
	b.	it already faces a national security disadvantage vis-à	à-vis an adversary
	c.	it wants to shift its production possibilities curve to the	he right
	d.	it wants to shift its production possibilities curve to the	he left
	e.	it wants to shift its adversary's production possibilitie	es to the right

ESSAY

- 1. a. Give an economics-based explanation for why class attendance is usually higher on the first day of class and on the days before major exams.
 - b. Describe some policies that your instructor could implement to reduce absences and give an economics-based explanation of why they would have the desired effect.

SOLUTION:

- a. The opportunity cost of missing class on the first day is relatively high since instructors usually provide useful information on the first day (for instance, information about grading policies and exam schedules). Similarly, the opportunity cost of missing class on the days before major exams is relatively high because instructors often spend time reviewing or providing useful exam information.
- b. Some possible policies to reduce absences are to: assign extra credit or a grade for attendance, penalize students for missing classes, or give pop quizzes. These policies promote attendance by raising the opportunity cost of missing class.

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- 2. Some students hate when their instructors unexpectedly cancel class, but most students love the extra hour or two it gives them. Imagine how you would feel if you showed up for your next class and found a note on the door canceling the lecture.
 - a. Make a list of at least five things you could do with the extra time.
 - b. Which one thing from the list would you actually choose to do?
 - c. Use your answer in part b to state the opportunity cost of attending your next class.

SOLUTION:

- a. Answers will vary.
- b. Answers will vary.
- c. The opportunity of attending the next class is the activity stated in part b.
- 3. A clean environment is healthier than a polluted environment. Use the law of increasing costs to explain why even environmentalists might not advocate laws banning all pollution.

SOLUTION:

Incremental improvements to the environment become increasingly expensive in terms of everything else that we have to give up.

- 4. Diamonds are nature's hardest substance. Classify each of the following diamonds as land, labor, capital, entrepreneurship, or none of the above. Explain your choice.
 - a. an unmined diamond
 - b. a diamond in DeBeers' vault (DeBeers is the world's biggest diamond mining company.)
 - c. a diamond in a jeweler's display case at the shopping mall
 - d. a diamond on your or your fiancée's finger
 - e. an industrial grade diamond in your dentist's drill
 - f. the diamonds in the blade that the highway department uses to cut concrete

SOLUTION:

- a. land, because the diamond is in its natural state
- b. capital, because it's part of DeBeers' inventory
- c. capital, because it's part of the jeweler's inventory
- d. none of the above, because it's a good that has been consumed by a household, not a resource
- e. capital, because it's being used in the production of your dentist's services
- f. capital, because the highway department is using it to produce its output (roads, road repair)
- 5. Imagine an economy that produces capital goods and consumption goods. What will happen to its production possibilities curve if some of its existing capital stock wears out and is not replaced? How will your answer differ if more than enough capital is produced to replace the capital that wears out?

SOLUTION:

With less capital (assuming no growth in other resources or technology), this economy will not be able to produce as much as it could before the capital wore out. The production possibilities curve will shift inward, towards the origin. With more capital (assuming no change in other resources or technology), this economy will be able to produce more than it initially could. Its production possibilities curve will shift outward, away from the origin.

6. The Taxpayer Relief Act of 1997 created the Hope Higher Education Scholarship program, which provides a maximum of \$1,500 in tax credits for the first two years of college for families with adjusted gross incomes of less than \$100,000. Which factor(s) of production will change as a result of this program? Explain how this program is expected to affect the U.S. production possibilities curve.

SOLUTION:

Capital (human capital, to be exact) will increase. This program reduces the cost of attending college. As individuals invest in more human capital, the production possibilities curve will shift outward. The United States will be able to produce more.

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7. Sonny and his girlfriend are stranded on an island. Sonny can produce 8 cups of berries per day, or 3 ounces of honey. His girlfriend can produce 10 cups of berries per day, or 6 ounces of honey. Explain who has the absolute advantage in berry production and who has the absolute advantage in honey production. Explain why the person who has the absolute advantage in berry production should not produce berries.

SOLUTION:

His girlfriend has the absolute advantage in both berries and honey production, because she can produce more of each than Sonny can. However, Sonny should specialize in berry production because he has the lower opportunity cost associated with berry production. He gives up the opportunity to produce only 0.375 ounces of honey when he produces a cup of berries, while his girlfriend gives up the opportunity to produce 0.6 ounces of honey when she produces a cup of berries.

8. In economic terms associated with employment and unemployment, what would cause an economy to operate inside its production possibilities curve? What would have to change to move it to a point on its production possibilities curve?

SOLUTION:

Unemployment or underemployment would keep an economy from operating on its production possibilities curve. As the economy reduces its unemployment rate and gets rid of all underemployment, it will move toward full employment and will move to a point on the production possibilities curve.

9. "Shifting resources from the production of other goods to the production of national security goods may not increase a nation's national security." Explain.

SOLUTION:

National security is a good unlike a cucumber. If you shift more resources to the production of cucumbers, you obtain more cucumbers. If your neighbor produces cucumbers as well, you still have the ones you produced. That is to say, how many cucumbers you end up with has nothing whatsoever to do with choices other people make. Not so with national security. If a nation produces more national security goods it gets more security only if other nations do not react by producing more security goods of their own. If they produce more, the added security produced initially is lost. That's because one's own security depends on what others do. If an adversarial nation arms itself to the teeth, you're national security is lessened even though you did not reallocate any resources away from security goods. It complicates matters, doesn't it?