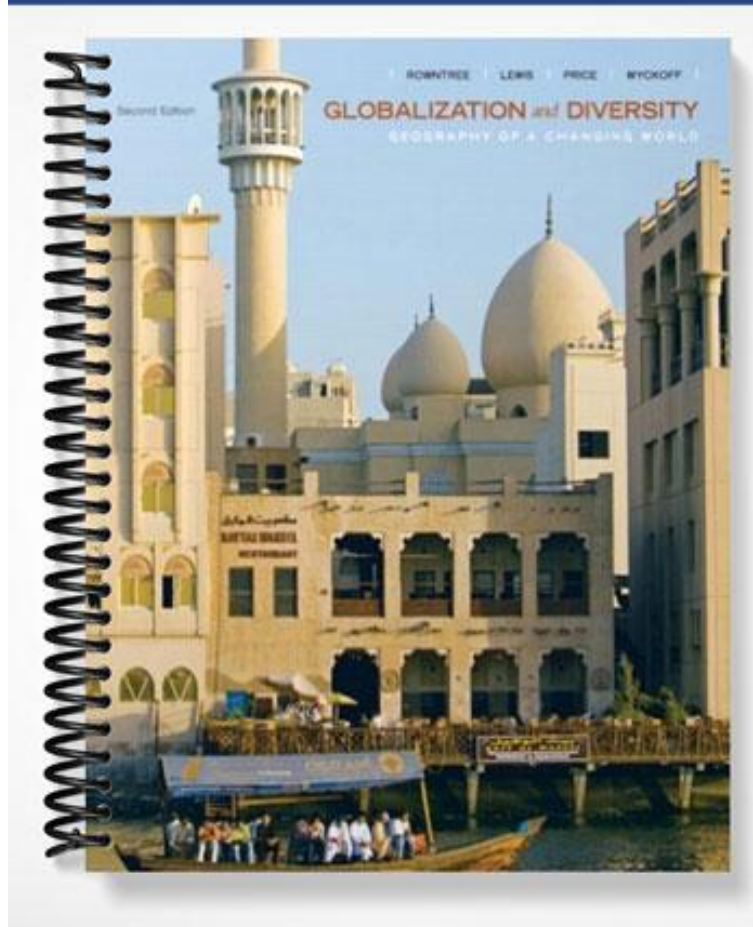


TEST BANK



Globalization and Diversity: Geography in a Changing World, 2e (Rowntree)

Chapter 2 Changing Global Environment

Multiple Choice and Bimodal Questions

- 1) Anthropogenic emissions are caused by
- A) people.
 - B) animals.
 - C) climate.
 - D) rocks.
 - E) anthropologists.

Answer: A

Diff: 1

Topic: 3 Environment

Skill: Memorize

- 2) What substance accounts for more than half of the human-generated greenhouse gases?
- A) chlorofluorocarbons
 - B) carbon dioxide
 - C) methane
 - D) nitrous oxide
 - E) ozone

Answer: B

Diff: 2

Topic: 3 Environment

Skill: Memorize

- 3) Which of the following is an example the possible effects of global warming?
- A) The U.S. wheat belt may receive more rainfall.
 - B) Grain production is likely to increase.
 - C) Canada and Russia may experience shorter growing seasons.
 - D) Sea level will rise.
 - E) New islands will appear as sea level decreases.

Answer: D

Diff: 3

Topic: 3 Environment

Skill: Synthesize

- 4) What country contributes the most greenhouse emissions to the atmosphere?
- A) England
 - B) Germany
 - C) United States
 - D) Japan
 - E) Russia

Answer: C

Diff: 1

Topic: 3 Environment

Skill: Memorize

- 5) An assemblage of local plants, animals, and insects covering a large area such as a tropical rainforest or a grassland is called a
- A) bioregion.
 - B) bionicle.
 - C) biosphere.
 - D) biogeography.
 - E) biore.

Answer: A

Diff: 2

Topic: 3 Environment

Skill: Memorize

- 6) Which of the following is a cause of tropical deforestation?
- A) globalization of international wood products commerce
 - B) the world's appetite for beef
 - C) new settlement
 - D) granting of timber concessions to loggers
 - E) all of the above

Answer: E

Diff: 2

Topic: 3 Environment

Skill: Synthesize

- 7) In 2001 American President George W. Bush went on record opposing the Kyoto Protocol primarily because
- A) the U.S. is and has not been a significant contributor to greenhouse gas emissions.
 - B) while the U.S. has contributed greatly to greenhouse gas emissions in the past, in recent years the nation has already made substantial efforts in reducing these emissions.
 - C) there is no scientific evidence whatsoever supporting a correlation between greenhouse emissions and global warming.
 - D) atmospheric emission reductions could potentially harm the U.S. economy.
 - E) no other industrialized country supports it.

Answer: D

Diff: 2

Topic: 3 Environment

Skill: Memorize

- 8) Tropical rainforests typically
- A) have rich soils.
 - B) have three major levels of vegetation.
 - C) are located 30 degrees or more from the equator.
 - D) have at least one dry season.
 - E) have low average temperatures.

Answer: B

Diff: 2

Topic: 3 Environment

Skill: Synthesize

9) Which of the following was NOT a significant part of the Green Revolution?

- A) increased use of fertilizers
- B) increased use of pesticides
- C) increased use of labor
- D) decreased fallow (resting) time for fields
- E) increased use of single crop fields

Answer: C

Diff: 1

Topic: 3a Environment Agriculture

Skill: Synthesize

10) Which of the following is a fossil fuel?

- A) petroleum
- B) wood
- C) hydrogen/fuel cell
- D) ethanol
- E) nuclear energy

Answer: A

Diff: 2

Topic: 3 Environment

Skill: Memorize

11) What is the major source of chlorofluorocarbons (CFCs)?

- A) burning fossil fuels
- B) aerosol sprays and refrigerants
- C) by-product of cattle and sheep digestion
- D) widespread use of chemical fertilizers in agriculture
- E) burning associated with rainforest clearing

Answer: B

Diff: 3

Topic: 3 Environment

Skill: Memorize

12) What is the major source of methane?

- A) aerosol sprays and refrigerants
- B) burning fossil fuels
- C) widespread use of chemical fertilizers in agriculture
- D) burning associated with rainforest clearing
- E) all of the above

Answer: D

Diff: 3

Topic: 3 Environment

Skill: Memorize

13) What is the major source of nitrous oxide?

- A) aerosol sprays and refrigerants
- B) burning fossil fuels
- C) by-product of cattle and sheep digestion
- D) burning associated with rainforest clearing
- E) widespread use of chemical fertilizers in agriculture

Answer: E

Diff: 3

Topic: 3 Environment

Skill: Memorize

- 14) The increase in greenhouse gases during the last 150 years is primarily a result of
- A) the excessive burning of fossil fuels by humans.
 - B) the escape of these gases from plate boundaries and volcanoes.
 - C) increased sunspot activity that accelerate plant photosynthesis rates.
 - D) the release of excessive amounts of carbon from the oceans.
 - E) widespread use of chemical fertilizers in agriculture.

Answer: A

Diff: 2

Topic: 3d Environment Climate

Skill: Memorize

- 15) Global warming could have which of the following potential dramatic effects?
- A) a regional shift in agriculture production northward
 - B) a decrease in worldwide grain production
 - C) rising sea levels as a result of the melting of the polar ice caps
 - D) southern areas of the U.S. could expect a warmer, drier climate
 - E) all of the above

Answer: E

Diff: 1

Topic: 3 Environment

Skill: Memorize

- 16) What is the only industrialized country in the world that has not ratified the Kyoto Protocol?
- A) Japan
 - B) Russia
 - C) United States
 - D) France
 - E) Brazil

Answer: C

Diff: 3

Topic: 3 Environment

Skill: Memorize

- 17) What is a bioregion?
- A) regions that are classified by their predominant patterns of temperature and precipitation
 - B) regions that are classified in regard to the similarities in their plant communities
 - C) regions that are classified in regard to the similarities in their animal communities
 - D) regions that are classified in regard to the similarities in both their plant and animal communities
 - E) regions that are classified in regard to the similarities in the geology and animal life of the region

Answer: D

Diff: 2

Topic: 3 Environment

Skill: Memorize

- 18) Tropical rainforest canopies are generally
- A) a two-layer canopy that is thickest in its upper layer and thin in its lower layer.
 - B) a two-layer canopy that is thickest in its lower layer and thin in its upper layer.
 - C) a three-layer canopy that is thickest at the ground level.
 - D) a three-layer canopy that is thickest in its middle layer.
 - E) a one-layer canopy

Answer: D

Diff: 2

Topic: 3 Environment

Skill: Synthesize

- 19) The nutrients that are available for plant growth in tropical rainforests tend to be stored in
- A) the uppermost layer of the soil.
 - B) the bottommost layer of the soil.
 - C) a layer that is approximately one meter below the surface.
 - D) the decaying vegetative material that has fallen on the rainforest floor.
 - E) the living plants.

Answer: E

Diff: 3

Topic: 3 Environment

Skill: Memorize

- 20) Tropical forests are not well-suited for intensive agriculture because
- A) the excessive amount of rainfall in the region tends to prohibit effective plant growth.
 - B) available nutrients are stored in tropical forest vegetation, so when the ground cover and trees are removed, the nutrients are removed, too.
 - C) the ground layer of vegetation in tropical forests is so thick that the land is extremely difficult to clear.
 - D) the temperatures in tropical forests are too high to allow feasible crop production.
 - E) they tend to be located too far inland.

Answer: B

Diff: 2

Topic: 3 Environment

Skill: Memorize

- 21) What world region is experiencing the highest RATE of tropical deforestation?
- A) Africa
 - B) South America
 - C) East Asia
 - D) Southeast Asia
 - E) North America

Answer: D

Diff: 2

Topic: 3 Environment

Skill: Memorize

- 22) Where are most tropical rainforests found?
- A) near the north pole
 - B) near the south pole
 - C) near the equator
 - D) in the western hemisphere
 - E) in the eastern hemisphere

Answer: C

Diff: 1

Topic: 3 Environment

Skill: Memorize

23) The amount of tropical forest that is lost each year is equivalent to the size of what U.S. state?

- A) Rhode Island
- B) Texas
- C) Alaska
- D) Delaware
- E) Wisconsin

Answer: E

Diff: 2

Topic: 3 Environment

Skill: Memorize

24) About half of the tropical forests that are lost each year are found in what part of the world?

- A) Amazon Basin of South America
- B) Southeast Asia
- C) Tropical Africa
- D) the Caribbean
- E) Oceania

Answer: A

Diff: 2

Topic: 3 Environment

Skill: Memorize

25) Some estimates suggest that logging occurs _____ times faster in Southeast Asia than in the Amazon

- A) 2
- B) 3
- C) 4
- D) 5
- E) 10

Answer: B

Diff: 3

Topic: 3 Environment

Skill: Memorize

26) What is the major cause of widespread cutting of tropical rainforests?

- A) the recent globalization of commerce in international wood products
- B) an expansion of farmlands in tropical regions
- C) intensified efforts to protect the forests from wildfires by harvesting
- D) rising worldwide demand for paper
- E) urban sprawl

Answer: A

Diff: 2

Topic: 3 Environment

Skill: Memorize

27) Which of the following contributes significantly to the destruction of tropical rain forests?

- A) the world's growing appetite for beef
- B) a tree disease that was accidentally carried to tropical forests around the world
- C) intensified efforts to protect the forests from wildfires by harvesting
- D) flooding
- E) drought

Answer: A

Diff: 3

Topic: 3 Environment

Skill: Memorize

- 28) Which of the following contributes to the destruction of tropical rain forests?
- A) a tree disease that was accidentally carried to tropical forests around the world
 - B) intensified efforts to protect the forests from wildfires by harvesting
 - C) tropical forests are often the last settlement frontiers for rapidly growing populations in the developing world
 - D) flooding
 - E) drought

Answer: C

Diff: 3

Topic: 3 Environment

Skill: Synthesize

- 29) If current rates of deforestation continue in Southeast Asian, how many years would it take for the region to become completely stripped of its forests?
- A) 5
 - B) 15
 - C) 25
 - D) 50
 - E) 75

Answer: B

Diff: 3

Topic: 3 Environment

Skill: Memorize

- 30) What percentage of tropical forest timber is used in Japan and China?
- A) 10%
 - B) 20%
 - C) 30%
 - D) 50%
 - E) 70%

Answer: D

Diff: 3

Topic: 3 Environment

Skill: Memorize

- 31) In what type of bioregion is decertification most likely to occur?
- A) tropical forests
 - B) temperate forests
 - C) coniferous forests
 - D) tundra
 - E) grasslands

Answer: E

Diff: 1

Topic: 3 Environment

Skill: Memorize

32) With what bioregion is the term "steppe" associated?

- A) grasslands
- B) tropical forests
- C) savanna
- D) coniferous forests
- E) tundra

Answer: A

Diff: 2

Topic: 3 Environment

Skill: Memorize

33) According to a United Nations estimate, about how much of the world's rangelands are threatened by decertification?

- A) 20%
- B) 30%
- C) 40%
- D) 50%
- E) 70%

Answer: E

Diff: 2

Topic: 3 Environment

Skill: Memorize

34) Between 1950 and 1980, an area the size of Denmark has been decertified in which country?

- A) China
- B) Norway
- C) Brazil
- D) Bangladesh
- E) United States

Answer: A

Diff: 2

Topic: 3 Environment

Skill: Memorize

35) In the conifer forests of western North America, what is the major source of conflict for timber harvesters?

- A) farmers
- B) environmental concerns
- C) ranchers
- D) native American groups
- E) suburban residential and shopping center developers

Answer: B

Diff: 2

Topic: 3 Environment

Skill: Memorize

- 36) Why is there special concern about Japanese timber firms purchasing logs from North American conifer forests?
- A) Japan gets a discount on the logs.
 - B) Japan does not hire U.S. workers to cut the trees.
 - C) These trees are often cut from public forests in the U.S.
 - D) At this time, the U.S. and Japan are involved in a larger trade dispute
 - E) all of the above

Answer: C

Diff: 3

Topic: 3 Environment

Skill: Memorize

- 37) In which parts of the world has decertification been the most serious problem?
- A) Southeast Asia and Oceania
 - B) Western and Southern Europe
 - C) Southeast Asia and North America
 - D) Africa, Australia, and South Asia
 - E) Canada and Eastern Europe

Answer: D

Diff: 3

Topic: 3 Environment

Skill: Memorize

- 38) What is the approximate size of the area around the world that has become decertified over the last several decades?
- A) about the size South America
 - B) about the size of the state of Delaware
 - C) about the size of a city block
 - D) about the size of New York City
 - E) about the size of Brazil

Answer: E

Diff: 3

Topic: 3 Environment

Skill: Memorize

- 39) What Latin American country has used much of its interior rain forest for settlement in order to ease population pressure along its densely settled eastern coast?
- A) Brazil
 - B) Bolivia
 - C) Chile
 - D) Argentina
 - E) Mexico

Answer: A

Diff: 3

Topic: 3 Environment

Skill: Memorize

40) About how much of the world's land area is tropical rain forest?

- A) 2%
- B) 7%
- C) 10%
- D) 15%
- E) 25%

Answer: B

Diff: 3

Topic: 3 Environment

Skill: Memorize

41) How tall are the tallest trees in a tropical rain forest?

- A) 75 ft.
- B) 150 ft.
- C) 200 ft.
- D) 270 ft.
- E) 340 ft.

Answer: C

Diff: 3

Topic: 3 Environment

Skill: Memorize

42) How tall are the middle-level trees in a tropical rain forest?

- A) 50 ft.
- B) 75 ft.
- C) 100 ft.
- D) 120 ft.
- E) 140 ft.

Answer: C

Diff: 3

Topic: 3 Environment

Skill: Memorize

43) Where is the third or lowest level of the tropical rainforest vegetation?

- A) forest floor
- B) 5 feet above the ground
- C) 10 feet above the ground
- D) 15 feet above the ground
- E) 20 feet above the ground

Answer: A

Diff: 3

Topic: 3 Environment

Skill: Memorize

44) According to your text, what can "be thought of as the genetic library that keeps life going on Earth"?

- A) a bioengineering lab
- B) human genes
- C) the human genome project
- D) biodiversity
- E) a biome

Answer: D

Diff: 3

Topic: 3 Environment

Skill: Memorize

45) The world's growing appetite for what food product is a leading cause of tropical deforestation?

- A) pork
- B) sugar
- C) lamb
- D) bananas
- E) beef

Answer: E

Diff: 2

Topic: 3 Environment

Skill: Memorize

46) In which of the following areas do international environmental treaties exist?

- A) whaling
- B) ocean pollution
- C) fisheries
- D) protection of wildlife species
- E) all of the above

Answer: E

Diff: 2

Topic: 3 Environment

Skill: Memorize

47) Until the last half-century, what was the primary use for tropical forests?

- A) homes for small populations of native peoples
- B) natural resource for timber companies
- C) tourism
- D) hiking and camping trails
- E) wildlife research centers

Answer: A

Diff: 3

Topic: 3 Environment

Skill: Memorize

48) Which of the following is NOT one of the major contributors to tropical deforestation?

- A) the globalization of the wood products industry
- B) grazing of beef cattle on cleared forest lands
- C) increasing settlement as a way to alleviate population pressure elsewhere in tropical regions
- D) the spread of tropical plant diseases
- E) agriculture

Answer: D

Diff: 2

Topic: 3 Environment

Skill: Synthesize

49) Temperate forests are likely to have which of the following species of trees?

- A) pine
- B) spruce
- C) maple
- D) beech
- E) all of the above

Answer: E

Diff: 2

Topic: 3 Environment

Skill: Memorize

50) Why is cattle ranching not sustainable in areas that were formerly tropical forests?

- A) Cattle waste is toxic to rainforest soils.
- B) Cattle ranching quickly exhausts the nutrient-poor soil of tropical rainforests.
- C) The grasses that tolerate the tropical environment are toxic to cows.
- D) A & B above
- E) B & C above

Answer: B

Diff: 3

Topic: 3 Environment

Skill: Synthesize

51) Which of the following is NOT associated with industrial food production?

- A) machinery
- B) large amounts of labor
- C) the use of fossil fuels
- D) chemical fertilizers
- E) pesticides

Answer: B

Diff: 2

Topic: 3a Environment Agriculture

Skill: Synthesize

52) Which of the following is NOT one of the processes associated with the Green Revolution?

- A) a change from traditional mixed crops to mono crops
- B) intensive applications of such inputs as water, fertilizers, and pesticides
- C) a reduction in the use of hybrid seeds
- D) further increases in the intensity of agriculture by reduction in the fallow of field-resting time between seasonal crops
- E) irrigation

Answer: C

Diff: 2

Topic: 3a Environment Agriculture

Skill: Synthesize

53) What are the key elements of the first stage of the Green Revolution?

- A) mixed crop fields of high-yield rice, wheat and corn; increased use of water, fertilizers, and pesticides; and reduction of the field-resting time between crops
- B) monocrop fields of rice, wheat and corn; increased use of water, fertilizers, and pesticides; and reduction of the field-resting time between crops
- C) monocrop fields of high-yield rice, wheat and corn; increased use of water, fertilizers, and pesticides; and increase in the field-resting time between crops
- D) monocrop fields of high-yield rice, wheat and corn; increased use of water, fertilizers, and pesticides; and reduction of the field-resting time between crops
- E) mixed crop fields of rice, wheat and corn; increased use of water, fertilizers, and pesticides; and increase in the field-resting time between crops

Answer: D

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 54) How does the second stage of the Green Revolution differ from the first stage?
- A) The second stage adds new types of fast-growing wheat and rice specifically bred for tropical and sub-tropical climates.
 - B) The second stage emphasizes new planting and harvesting equipment.
 - C) The second stage introduces "fertigation," which combines irrigation and fertilizers in a single step.
 - D) The second stage promotes multiple crop production, rather than single crop.
 - E) all of the above

Answer: A

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 55) What have been the results of the Green Revolution?
- A) a complete success in terms of increased food production, with no unintended consequences
 - B) a failure in terms of the effect on food production
 - C) a success in terms of increased food production and environmental outcomes, but with social costs
 - D) a success in terms of increased food production and social outcomes, but with environmental costs
 - E) a success in terms of increased food production, but with environmental and social costs

Answer: E

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 56) Which of the following is NOT one of environmental costs associated with the Green Revolution?
- A) farmers without money were unable to benefit from the Green Revolution
 - B) increased use of fossil fuels
 - C) damage to habitat and wildlife from diversion of natural rivers and streams for irrigation
 - D) pollution of rivers and other water sources by runoff carrying farm chemicals
 - E) increased regional air pollution from factories that produce agricultural chemicals

Answer: A

Diff: 2

Topic: 3a Environment Agriculture

Skill: Synthesize

- 57) Which of the following is a social cost associated with the Green Revolution?
- A) Financial costs to farmers participating in the Green Revolution is higher than with traditional farming.
 - B) People without access to loans or family support cannot participate in the Green Revolution.
 - C) Traditional farmers cannot compete against Green Revolution farmers in the regional marketplace.
 - D) inequality between well-off Green Revolution farmers and poor, traditional farmers
 - E) all of the above

Answer: E

Diff: 2

Topic: 3a Environment Agriculture

Skill: Synthesize

- 58) Which of the following is NOT a social cost associated with the Green Revolution?
- A) Financial costs to farmers participating in the Green Revolution is higher than with traditional farming.
 - B) pollution of rivers and other water sources by runoff carrying farm chemicals
 - C) People without access to loans or family support cannot participate in the Green Revolution.
 - D) Traditional farmers cannot compete against Green Revolution farmers in the regional marketplace.
 - E) inequality between well-off Green Revolution farmers and poor, traditional farmers

Answer: B

Diff: 2

Topic: 3a Environment Agriculture

Skill: Analyze

- 59) Which of the following is an environmental cost associated with the Green Revolution?
- A) increased use of fossil fuels
 - B) damage to habitat and wildlife from diversion of natural rivers and streams for irrigation
 - C) pollution of rivers and other water sources by runoff carrying farm chemicals
 - D) increased regional air pollution from factories that produce agricultural chemicals
 - E) all of the above

Answer: E

Diff: 2

Topic: 3a Environment Agriculture

Skill: Analyze

- 60) How much of the world's annual oil output does Green Revolution agriculture consume?
- A) 1%
 - B) 5%
 - C) 10%
 - D) 15%
 - E) 20%

Answer: C

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 61) Which of the following statements about world food production is most accurate?
- A) Food production is not an important global issue, because local and regional problems often keep people from obtaining food.
 - B) Food production is an important global issue, and global problems often keep people from obtaining food.
 - C) Food production is not an important global issue, but global problems often keep people from obtaining food.
 - D) Food production is an important global issue, but local and regional problems often keep people from obtaining food.
 - E) Food production is an important local problem, but global issues often keep people from obtaining food.

Answer: D

Diff: 3

Topic: 3a Environment Agriculture

Skill: Synthesize

- 62) Which of the following is a local or regional problem that keeps people from growing, buying, or receiving adequate food supplies?
- A) poverty
 - B) global warming
 - C) climate change
 - D) decisions of the World Trade Organization
 - E) all of the above

Answer: A

Diff: 3

Topic: 3a Environment Agriculture

Skill: Synthesize

- 63) If the total global agricultural output were somehow shared equally among all the world's people, about how much food would each person receive?
- A) half of his or her basic daily needs
 - B) two-thirds of his or her basic daily needs
 - C) just about exactly his or her basic daily needs
 - D) about twice his or her basic daily needs
 - E) about 4 times his or her basic daily needs

Answer: E

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 64) What do many experts say about the availability of food for the people of the world?
- A) There is enough food to feed the world's population; the real issue is distribution of food, and the ability of people to afford to buy enough food for a healthy life.
 - B) There is not enough food to feed the world's population, and this problem is worsened by poor distribution of food, and by the poverty that prevents people from purchasing the food they need for a healthy life.
 - C) There is enough food to feed the world's population, and distribution of food is adequate. The real problem is the poverty that prevents people from purchasing the food they need for a healthy life.
 - D) There is enough food to feed the world's population, and most people can afford the food they need for a healthy life; the real problem is the global distribution of food, and unhealthy choices in food purchases.
 - E) There is not enough food to feed the world's population, although the distribution of food is adequate. On the other hand, poverty often prevents people from purchasing the food they need for a healthy life.

Answer: A

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 65) Which of the following statements about food shortages is most accurate?
- A) Political problems are usually less responsible for food shortages and famines than are natural events, such as droughts and flooding.
 - B) Political problems are usually more responsible for food shortages and famines than are natural events, such as droughts and flooding.
 - C) Political problems are usually just as responsible for food shortages and famines than are natural events, such as droughts and flooding.
 - D) Political problems are rarely responsible for food shortages and famines.
 - E) Political solutions have gone a long way toward eliminating food shortages and famines caused by natural events, such as droughts and flooding.

Answer: B

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 66) At present, what proportion of the world's people are primarily vegetarian?
- A) one-tenth
 - B) one-quarter
 - C) one-half
 - D) two-thirds
 - E) three-quarters

Answer: D

Diff: 3

Topic: 3a Environment Agriculture

Skill: Synthesize

- 67) How is globalization causing dietary preferences to change worldwide?
- A) Changing dietary preferences are increasing the demand for organic foods.
 - B) Changing dietary preferences are increasing the demand for genetically altered foods.
 - C) Changing dietary preferences are increasing the demand for vegetables.
 - D) Changing dietary preferences are increasing the quantity of food that individuals eat.
 - E) Changing dietary preferences are increasing the demand for meat.

Answer: E

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 68) In which of the following countries is the demand for meat in the diet lowest?
- A) India
 - B) Canada
 - C) France
 - D) Japan
 - E) U.S.

Answer: A

Diff: 1

Topic: 3a Environment Agriculture

Skill: Synthesize

69) In which of the following countries is the demand for meat in the diet highest?

- A) India
- B) Japan
- C) China
- D) Vietnam
- E) Tibet

Answer: B

Diff: 1

Topic: 3a Environment Agriculture

Skill: Synthesize

70) What world regions are MOST likely to suffer food shortages?

- A) Europe and Latin America
- B) North America and Southeast Asia
- C) Africa and South Asia
- D) Oceania and the Caribbean
- E) East Asia and Western Europe

Answer: C

Diff: 2

Topic: 3a Environment Agriculture

Skill: Memorize

71) What condition in Africa will make food shortages more likely?

- A) rapid population increase
- B) infestations of crop-eating insects
- C) civil disruption from tribal warfare
- D) A and C above
- E) A and B above

Answer: D

Diff: 2

Topic: 3a Environment Agriculture

Skill: Memorize

72) Has Africa ever been self-sufficient in food?

- A) yes, up until 1970
- B) no, never
- C) yes, before European colonization
- D) yes, but current conditions point to loss of self-sufficiency in the future
- E) Sub-Saharan Africa has been self-sufficient, but not the northern part of the continent

Answer: A

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

73) In Sub-Saharan Africa, what percentage of people face food shortages?

- A) one in three
- B) one in four
- C) one in five
- D) one in six
- E) one in seven

Answer: B

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 74) What does the United Nations predict with respect to the food supply in South Asia?
- A) By 2010, South Asia will be food self-sufficient.
 - B) By 2010, South Asia will produce enough rice, but will still produce insufficient quantities of vegetables and meat.
 - C) By 2010, almost 200 million people will suffer from chronic undernourishment.
 - D) By 2010, South Asia will become a net food exporter.
 - E) By 2010, chronic food shortages will result in malnutrition among most of the region's people.

Answer: C

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 75) What does the United Nations predict with respect to the food supply in East Asian in the next 10 years?
- A) The percentage of undernourished people in East Asia will rise by almost 5%.
 - B) The percentage of undernourished people in East Asia will drop by almost 10%.
 - C) The percentage of undernourished people in East Asia will rise by almost 10%.
 - D) The percentage of undernourished people in East Asia will drop by almost 5%.
 - E) The percentage of undernourished people in East Asia will remain at its current level.

Answer: D

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 76) Lower rates of population growth and higher agricultural production are making gains against hunger in what world regions?
- A) East Asia and Latin America
 - B) Latin America and Sub-Saharan Africa
 - C) Sub-Saharan Africa and South Asia
 - D) South Asia and the Caribbean
 - E) the Caribbean and East Asia

Answer: A

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

- 77) What factors are helping to reduce hunger in East Asia and Latin America?
- A) significant out-migration from these regions
 - B) higher agricultural production
 - C) lower population growth rate
 - D) B and C above
 - E) A and B above

Answer: D

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

78) Which of the following statements about traditional agriculture is most accurate?

- A) it requires high inputs of technology and labor
- B) it requires low inputs of technology, but is often labor-intensive
- C) it requires low inputs of technology and labor
- D) it requires high inputs of technology, and low inputs of labor
- E) it requires moderate inputs of both technology and labor

Answer: B

Diff: 2

Topic: 3a Environment Agriculture

Skill: Memorize

79) Which of the following statements about industrial agriculture is most accurate?

- A) Moderate capital investments in machinery, fuel, and agrochemicals, produce decent yields while keeping labor costs low.
- B) Large capital investments in machinery, fuel, and agrochemicals, produce both high yields and labor costs.
- C) Large capital investments in machinery, fuel, and agrochemicals, produce high yields while keeping labor costs low.
- D) Large capital investments in machinery, fuel, and agrochemicals, produce moderate yields while keeping labor costs low.
- E) Large capital investments in machinery, fuel, and agrochemicals, produce high yields, but have little effect on labor costs.

Answer: C

Diff: 2

Topic: 3a Environment Agriculture

Skill: Synthesize

80) What are the estimates of how high sea levels will rise if global warming continues?

- A) less than 1 inch
- B) from several inches to 3 feet
- C) from 2 feet to 4 feet
- D) from 5 feet to 10 feet
- E) more than 10 feet

Answer: B

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

81) By how much do computer models predict that average global temperatures will increase if current trends continue?

- A) about one degree Fahrenheit
- B) 2-4 degrees Fahrenheit
- C) about 5 degrees Fahrenheit
- D) 5-10 degrees Fahrenheit
- E) more than 10 degrees Fahrenheit

Answer: B

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

82) A temperature drop of how much led to the Earth's Ice Age 40,000 years ago?

- A) about one degree Fahrenheit
- B) 2-4 degrees Fahrenheit
- C) about 5 degrees Fahrenheit
- D) 5-10 degrees Fahrenheit
- E) more than 10 degrees Fahrenheit

Answer: B

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

83) How many years of weather data are collected to generate climate information suitable to identify climate regions?

- A) 5
- B) 10
- C) 15
- D) 30
- E) 50

Answer: D

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

84) How many lines for temperature data are presented on a climograph?

- A) none
- B) 1
- C) 2
- D) 3
- E) it varies according to the region

Answer: C

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

85) If global warming continues, what do computer models predict will happen to tropical storms?

- A) they will stay the same
- B) they will move farther to the north
- C) they will move farther to the south
- D) they will become much weaker
- E) they will become more intense

Answer: E

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

- 86) Which of the following statements is most accurate?
- A) Greenhouse gases have never been very stable, and have increased dramatically in the past 130 years.
 - B) Greenhouse gases were fairly stable through most of human history, but have decreased dramatically in the past 130 years.
 - C) Greenhouse gases have never been very stable, but have decreased dramatically in the past 130 years.
 - D) Greenhouse gases were fairly stable through most of human history, but have increased dramatically in the past 130 years.
 - E) Greenhouse gases increased steadily through most of human history, but have remained stable over the past 130 years.

Answer: D

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

- 87) In which city did representatives from the countries of the world meet and create the first international agreement on global warming?
- A) Rio de Janeiro, Brazil
 - B) Paris, France
 - C) Kyoto, Japan
 - D) Kuala Lumpur, Malaysia
 - E) Calcutta, India

Answer: A

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

- 88) Why did the agreement reached at the Rio de Janeiro Earth summit fail to reduce greenhouse gas emissions?
- A) The U.S. failed to meet the emission reduction it agreed to at Rio.
 - B) Japan failed to meet the emission reduction it agreed to at Rio.
 - C) India failed to meet the emission reduction it agreed to at Rio.
 - D) China failed to meet the emission reduction it agreed to at Rio.
 - E) all of the above

Answer: E

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

- 89) Climographs do not contain information about
- A) average high temperatures.
 - B) average low temperatures.
 - C) average relative humidity.
 - D) average precipitation.
 - E) annual precipitation

Answer: C

Diff: 3

Topic: 3d Environment Climate

Skill: Synthesize

- 90) If global warming occurs to a significant degree, it is likely to have all of the following consequences, EXCEPT
- A) melting of the polar ice caps.
 - B) lower sea levels.
 - C) changing rainfall patterns.
 - D) more intense tropical storms.
 - E) longer growing season in Canada.

Answer: B

Diff: 3

Topic: 3d Environment Climate

Skill: Synthesize

- 91) Which of the following is NOT a significant greenhouse gas?
- A) carbon dioxide
 - B) methane
 - C) chlorofluorocarbons
 - D) molecular nitrogen
 - E) nitrous oxide

Answer: D

Diff: 3

Topic: 3d Environment Climate

Skill: Synthesize

- 92) Which of the following statements regarding the production greenhouse gases is true?
- A) The U.S. produces the highest amounts of greenhouse gases, with China close behind.
 - B) Russia produces the highest amounts of greenhouse gases.
 - C) India produces the same amount of greenhouse gases per capita as the U.S.
 - D) Brazil ranks second only to France in its production of greenhouse gases.
 - E) all of the above

Answer: A

Diff: 1

Topic: 3d Environment Climate

Skill: Synthesize

- 93) What is weather?
- A) local areas that possess extreme temperature variability over extended periods of time
 - B) the long-term condition of the Earth's atmosphere at a given location
 - C) the atmospheric conditions that are responsible for the formation of regions such as deserts
 - D) the short-term day-to-day expression of atmospheric processes
 - E) monthly average precipitation and temperature

Answer: D

Diff: 1

Topic: 3d Environment Climate

Skill: Memorize

94) Of the following gases, which is the MOST responsible for global warming?

- A) chlorofluorocarbons
- B) methane
- C) nitrous oxide
- D) hydrogen dioxide
- E) carbon dioxide

Answer: E

Diff: 2

Topic: 3d Environment Climate

Skill: Memorize

95) What is the major source of carbon dioxide?

- A) aerosol sprays and refrigerants
- B) by-product of cattle and sheep digestion
- C) burning fossil fuels
- D) widespread use of chemical fertilizers in agriculture
- E) burning associated with rainforest clearing

Answer: C

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

96) What do countries that ratify the Kyoto Protocol agree to do?

- A) eliminate their emissions of major greenhouse gases
- B) reduce their emissions of major greenhouse gases below 1990 levels
- C) keep their emissions of major greenhouse gases at current levels
- D) allow their emission of major greenhouse gases to go no higher than 10% above current levels
- E) eliminate their emissions of greenhouse gases and all other pollutants by 2010

Answer: B

Diff: 1

Topic: 3d Environment Climate

Skill: Memorize

97) What is the Kyoto protocol?

- A) a United Nations resolution with a goal of eliminating major greenhouse gases
- B) an international treaty with a goal of eliminating major greenhouse gases
- C) an international treaty with a goal of reducing major greenhouse gases
- D) a United Nations resolution with a goal of reducing major greenhouse gases
- E) an agreement among members of the Association of South-East Asian Nations (ASEAN) to reduce major greenhouse gases

Answer: C

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

- 98) Why are less developed countries (LDCs) reluctant to sign the Kyoto Protocol?
- A) Unrestricted emissions from most-developed-countries (MDCs) created the problem.
 - B) Most-developed-countries (MDCs) emit more than half the greenhouse gases at present.
 - C) Signing the Kyoto Protocol could limit the economic future of LDCs.
 - D) Up to now, LDCs have added very little to the build-up of greenhouse gases.
 - E) all of the above

Answer: E

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

- 99) What event caused the Kyoto Protocol to become international law?
- A) countries that emitted 55% of the world's greenhouse gases ratified it
 - B) every country in the world ratified it
 - C) two-thirds of the member countries of the United Nations ratified it
 - D) the United States ratified it
 - E) 51% of the countries in the world ratified it

Answer: A

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

- 100) What country ratified the Kyoto Protocol in late 2004 and thus caused it to become international law?
- A) United States
 - B) Russia
 - C) Japan
 - D) France
 - E) Brazil

Answer: B

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

- 101) The natural process of the Earth's atmosphere heating through the trapping of reradiated infrared radiation is known as .
- A) the greenhouse effect.
 - B) thermal inversion.
 - C) solar heating.
 - D) global warming.
 - E) subduction.

Answer: A

Diff: 1

Topic: 3d Environment Climate

Skill: Memorize

102) The Koppen system is a classification system for

- A) climate.
- B) landforms.
- C) tectonic activity.
- D) vegetation.
- E) languages.

Answer: A

Diff: 2

Topic: 3d Environment Climate

Skill: Memorize

True/False Questions

1) Floods are responsible for almost 50 percent of all deaths from natural disasters.

Answer: TRUE

Diff: 2

Topic: 3 Environment

Skill: Memorize

2) Anthropogenic emissions are those caused by animals.

Answer: TRUE

Diff: 1

Topic: 3 Environment

Skill: Memorize

3) London, England is an anthropogenic feature.

Answer: TRUE

Diff: 1

Topic: 3 Environment

Skill: Analyze

4) An earthquake is an anthropogenic hazard.

Answer: FALSE

Explanation: industrial pollution, toxic waste, etc.

Diff: 1

Topic: 3 Environment

Skill: Analyze

5) Only a very small proportion (3%) of the earth's water is fresh water

Answer: TRUE

Diff: 2

Topic: 3 Environment

Skill: Synthesize

6) Nitrous oxide accounts for more than half of the human-generated greenhouse gases.

Answer: FALSE

Explanation: carbon dioxide

Diff: 2

Topic: 3 Environment

Skill: Memorize

- 7) Granting of timber concessions, new settlements, the world's appetite for beef, and the globalization of wood products commerce all contribute to deforestation.
Answer: TRUE
Diff: 2
Topic: 3 Environment
Skill: Synthesize
- 8) In 2001 United States President George W. Bush went on record opposing U.S. participation in the Kyoto Protocol because no other industrialized country in the world supports it.
Answer: FALSE
Explanation: atmospheric emission reductions could potentially harm the U.S. economy.
Diff: 2
Topic: 3 Environment
Skill: Memorize
- 9) Petroleum is a fossil fuel.
Answer: TRUE
Diff: 2
Topic: 3 Environment
Skill: Memorize
- 10) Burning fossil fuels is the major source of chlorofluorocarbons (CFCs).
Answer: FALSE
Explanation: aerosol sprays and refrigerants
Diff: 3
Topic: 3 Environment
Skill: Memorize
- 11) The increase in greenhouse gases during the last 150 years is primarily a result of the massive increase in the burning of fossil fuels by humans.
Answer: TRUE
Diff: 2
Topic: 3 Environment
Skill: Memorize
- 12) What do countries that ratify the Maastricht Treaty agree to reduce their emissions of major greenhouse gases below 1990 levels.
Answer: FALSE
Explanation: Kyoto Protocol
Diff: 3
Topic: 3 Environment
Skill: Memorize
- 13) The Kyoto Protocol is an international treaty with a goal of reducing major greenhouse gases.
Answer: TRUE
Diff: 3
Topic: 3 Environment
Skill: Memorize

- 14) Ratification of the Kyoto Protocol by the United States in November 2004 enabled the Kyoto Protocol to become international law in February 2005.
Answer: FALSE
Explanation: Russia
Diff: 3
Topic: 3 Environment
Skill: Analyze
- 15) Most tropical rainforests found near the equator.
Answer: TRUE
Diff: 1
Topic: 3 Environment
Skill: Analyze
- 16) About half of the tropical forests that are lost each year are found in Southeast asian.
Answer: FALSE
Explanation: Amazon Basin of South America
Diff: 3
Topic: 3 Environment
Skill: Memorize
- 17) If current rates of deforestation continue in Southeast asian, 15 years would it take for the region to become completely stripped of its forests?
Answer: TRUE
Diff: 3
Topic: 3 Environment
Skill: Memorize
- 18) Fifty percent of tropical forest timber is used in russian.
Answer: FALSE
Explanation: Japan
Diff: 3
Topic: 3 Environment
Skill: Memorize
- 19) decertification is most likely to occur in a grassland region.
Answer: FALSE
Diff: 2
Topic: 3 Environment
Skill: Memorize
- 20) decertification has occurred in Africa, australian, and South asian.
Answer: TRUE
Diff: 3
Topic: 3 Environment
Skill: Synthesize
- 21) bolivian has used much of its interior rain forest for settlement in order to ease population pressure along its densely settled eastern coast.
Answer: FALSE
Explanation: Brazil
Diff: 3
Topic: 3 Environment
Skill: Memorize

- 22) The spread of tropical plant diseases is one of the major contributors to tropical deforestation.
Answer: FALSE
Explanation: is not
Diff: 1
Topic: 3 Environment
Skill: Memorize
- 23) Increased use of pesticides was a significant part of the Green Revolution.
Answer: TRUE
Diff: 2
Topic: 3a Environment Agriculture
Skill: Synthesize
- 24) The Green Revolution led to an increase in the use of hybrid seeds.
Answer: TRUE
Diff: 2
Topic: 3a Environment Agriculture
Skill: Synthesize
- 25) The first stage of the Green Revolution includes mono crop fields of high-yield rice, wheat and corn; increased use of water, fertilizers, and pesticides; and reduction of the field-resting time between crops.
Answer: TRUE
Diff: 3
Topic: 3a Environment Agriculture
Skill: Memorize
- 26) The Green Revolution was a success in terms of increased food production, with no unintended consequences
Answer: FALSE
Explanation: both with environmental and social costs
Diff: 3
Topic: 3a Environment Agriculture
Skill: Memorize
- 27) Food production is an important global issue, but local and regional problems often keep people from obtaining food.
Answer: TRUE
Diff: 3
Topic: 3a Environment Agriculture
Skill: Memorize
- 28) If the total global agricultural output were somehow shared equally among all the world's people, each person receive just about exactly his or her basic daily needs.
Answer: FALSE
Explanation: about 4 times his or her basic daily needs
Diff: 3
Topic: 3a Environment Agriculture
Skill: Memorize

- 29) The United Nations predicts that by 2010, almost 200 million people in russian will suffer from chronic undernourishment.
Answer: FALSE
Explanation: South Asia
Diff: 3
Topic: 3a Environment Agriculture
Skill: Memorize
- 30) Traditional agriculture requires low inputs of technology, but is often labor-intensive.
Answer: TRUE
Diff: 2
Topic: 3a Environment Agriculture
Skill: Memorize
- 31) Scientists are more accurate at predicting earthquakes than they are at predicting volcanic eruptions.
Answer: FALSE
Explanation: less accurate
Diff: 2
Topic: 3b Environment Physical Geography
Skill: Memorize
- 32) Volcanic activity often occurs near divergent plate boundaries.
Answer: TRUE
Diff: 3
Topic: 3b Environment Physical Geography
Skill: Memorize
- 33) The theory of plate tectonics states the surface of the earth is made up of one large geological plate that moves slowly across the surface of the earth.
Answer: FALSE
Explanation: a large number of geological plates
Diff: 3
Topic: 3b Environment Physical Geography
Skill: Memorize
- 34) A large area of very slow-moving molten rock within earth is called a convection cell.
Answer: TRUE
Diff: 3
Topic: 3b Environment Physical Geography
Skill: Memorize
- 35) A region where one tectonics plate dives below another is called a divergent plate boundary.
Answer: FALSE
Explanation: Subduction zone
Diff: 3
Topic: 3b Environment Physical Geography
Skill: Memorize
- 36) Volcanic eruptions occur along most tectonics plate boundaries.
Answer: TRUE
Diff: 3
Topic: 3b Environment Physical Geography
Skill: Memorize

- 37) Tropical rainforests typically have two major layers (or canopies) of vegetation.
Answer: FALSE
Explanation: three
Diff: 2
Topic: 3c Environment Vegetation
Skill: Memorize
- 38) The nutrients that are available for plant growth in tropical rainforests tend to be stored in the living plants.
Answer: TRUE
Diff: 3
Topic: 3c Environment Vegetation
Skill: Memorize
- 39) Tropical forests are not well-suited for intensive agriculture because they tend to be located too far inland.
Answer: FALSE
Explanation: available nutrients are stored in tropical forest vegetation, so when the ground cover and trees are removed, the nutrients are removed, too.
Diff: 2
Topic: 3c Environment Vegetation
Skill: Memorize
- 40) A "steppe" bioregion is most closely associated with grasslands.
Answer: TRUE
Diff: 2
Topic: 3c Environment Vegetation
Skill: Memorize
- 41) Temperate forests are likely to have maple, beech, spruce, and pine trees.
Answer: TRUE
Diff: 2
Topic: 3c Environment Vegetation
Skill: Memorize
- 42) Global pressure systems cause storms.
Answer: TRUE
Diff: 2
Topic: 3d Environment Climate
Skill: Synthesize
- 43) Wind travels from areas of low pressure to areas of high pressure.
Answer: FALSE
Explanation: from areas of high pressure to areas of low pressure.
Diff: 2
Topic: 3d Environment Climate
Skill: Memorize
- 44) Global warming would be a greater immediate problem in the nether lands than in Denver, Colorado.
Answer: TRUE
Diff: 3
Topic: 3d Environment Climate
Skill: Analyze

- 45) german contributes the most greenhouse emissions to the Earth's atmosphere.
Answer: FALSE
Explanation: United States
Diff: 1
Topic: 3d Environment Climate
Skill: Memorize
- 46) If global warming were to cause sea levels to rise, Miami, Florida would suffer more negative effects than Omaha, Nebraska.
Answer: TRUE
Diff: 3
Topic: 3d Environment Climate
Skill: Analyze
- 47) Weather is the the long-term condition of the Earth's atmosphere at a given location.
Answer: FALSE
Explanation: Climate
Diff: 1
Topic: 3d Environment Climate
Skill: Memorize
- 48) If global warming continues, computer models predict that tropical storms will become more intense.
Answer: TRUE
Diff: 3
Topic: 3d Environment Climate
Skill: Memorize
- 49) Greenhouse gases were fairly stable through most of human history, but have decreased dramatically in the past 130 years
Answer: FALSE
Explanation: increased
Diff: 3
Topic: 3d Environment Climate
Skill: Memorize
- 50) The natural process of the Earth's atmosphere heating through the trapping of reradiated infrared radiation is known as global warming.
Answer: FALSE
Explanation: the greenhouse effect
Diff: 1
Topic: 3d Environment Climate
Skill: Memorize
- 51) The Koppen system is a classification system for hurricanes.
Answer: FALSE
Explanation: climate types
Diff: 2
Topic: 3d Environment Climate
Skill: Memorize

52) Political problems are usually more responsible for food shortages and famines than are natural events, such as droughts and flooding.

Answer: TRUE

Diff: 3

Topic: 6 Political Geography

Skill: Memorize

53) According to a United Nations estimate, about about 40% of the world's rangelands are threatened by global warming.

Answer: FALSE

Explanation: desertification

Diff: 2

Topic: 7a Economic Geography

Skill: Memorize

Vocabulary Questions

1) Anthropogenic

Answer: Caused by humans, as in "anthropogenic emissions"

Diff: 1

Topic: 3 Environment

Skill: Memorize

2) Bioregion

Answer: An assemblage of local plants, animals, and insects covering a large area such as a tropical rainforest or a grassland (the text's authors use biome and bioregion interchangeably)

Diff: 3

Topic: 3 Environment

Skill: Memorize

3) desertification

Answer: Spread of desert-like conditions into semi-arid areas

Diff: 3

Topic: 3 Environment

Skill: Memorize

4) Green Revolution

Answer: Agricultural program that began in the 1950s and involved new agricultural techniques using genetically altered seeds, along with high inputs of chemical fertilizers and pesticides

Diff: 3

Topic: 3a Environment Agriculture

Skill: Memorize

5) Prairie

Answer: A vegetation region characterized by long, thick grasses

Diff: 3

Topic: 3b Environment Physical Geography

Skill: Memorize

6) Steppe

Answer: A vegetative region characterized by shorter, less dense grasslands

Diff: 3

Topic: 3b Environment Physical Geography

Skill: Memorize

7) Climate region

Answer: An area on a map where similar climatic conditions prevail over a larger area

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

8) Climographs

Answer: Graphs of average high and low temperatures and precipitation for an entire year (usually provided for a specific city)

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

9) Global warming

Answer: An increase in the temperature of Earth's atmosphere

Diff: 1

Topic: 3d Environment Climate

Skill: Memorize

10) Greenhouse effect

Answer: The natural process of lower atmospheric heating that results from the trapping of incoming and reradiated solar energy by water moisture, clouds, and other atmospheric cases

Diff: 3

Topic: 3d Environment Climate

Skill: Memorize

Essay Questions

- 1) What was the Kyoto Protocol, who were the major countries involved in this initiative, and how did it finally come to be international law in 2005?
- 2) Please explain how globalization and trade agreements have had a negative impact on the Earth's environment.
- 3) What was the Green Revolution, and what were its positive and negative effects?
- 4) Summarize the four problems and projections associated with global food production facing the world today.
- 5) Please explain the major climatic controls and how they have an effect on meteorological conditions.
- 6) What are the major causes and effects of global warming?
- 7) Please explain the three major factors contributing to tropical deforestation. In which regions do we find this problem especially pronounced?
- 8) Please explain the difference between industrial and traditional food production and intensive and extensive farming.