Chapter 1: A Global and Canadian Outlook on Natural Disasters

Student:	
1. Most of the 40 deadliest disasters between 1970 and 2005 occurred in a belt running Bangladesh through India and Iran to Turkey. This area was particularly vulnerable be	_
A. it has a high population density B. most of the world's earthquakes and volcanic eruptions occur here C. precipitation rates are very high in this region, producing frequent, large, and sudde D. it has a high population density and precipitation rates are very high in this region, and sudden floods are correct E. it has a high population density, most of the world's earthquakes and volcanic erupt precipitation rates are very high in this region, producing frequent, large, and sudden for the sudden frequent of the sudden	producing frequent, large, ions occur here, and
2. During the last half of the 20 th century, earthquakes, tsunami, and of deaths from natural disasters. A. volcanic eruptions B. floods C. landslides D. hurricanes E. tornadoes	account for the majority
3. Based on data for the period from 1947 to 1980, the continent ofloss of life from natural disasters. A. North America B. South America C. Europe D. Africa E. Asia	_ experienced the greatest

4. The greatest insurance dollar losses as a result of natural disasters in the last three decades of the 20th century
occurred in A. Mexico
B. China
C. the United States
D. Tibet
E. India
E. India
5. Based on insurance industry records of economic loss from natural disasters, 32 of the 40 most expensive
disasters between 1970 and 2005 were and floods.
A. earthquakes
B. volcanic eruptions
C. storms
D. landslides
E. fires
6. The return period of a disaster is the average number of years A. before survivors return to their homes
B. before the economy returns to pre-disaster levels
C. it takes for emotional recovery of victims
D. between same-sized events
E. between events of the same type, regardless of size
7. Which of the following disasters has the highest probability of causing a "10-fatality event" each year? A. an earthquake
B. a volcanic eruption
C. a hurricane
D. a tornado
E. a flood
8. Which of the following disasters has the highest probability of causing a "1,000-fatality event" each year?
A. an earthquake
B. a volcanic eruption
C. a hurricane
D. a tornado
E. a flood

9. The rapid increase in hungrowth	man population during the past several centuries is an example of h.	
A. linear B. algebraic		
C. parabolic D. integrated		
E. exponential		
B. both birth rates and death C. both birth rates and death	d little, while death rates have plunged th rates have plunged	
11. The present human populated A. 500 million B. 6 billion C. 60 billion D. 100 billion E. one trillion	oulation of the world is a little more than	
12. The growth rate of the vA. the birth rate plus the dea B. the birth rate minus the deals.		
C. the death rate minus the D. None of these are correct	birth rate	
13. At present, the world po A. 0.02 B. 0.12 C. 1.2 D. 12 E. 22	opulation of humans is growing at a rate of% per year.	

doubling time of A. 58 years B. 14 years C. 140 years D. 70 years E. 280 years
15. At present, the world population of humans grows by over million per year. A. 0.08 B. 0.8 C. 8 D. 80 E. 800
16. The growth of human population worldwide over the past 1000 years has been A. essentially zero B. exponential, with a constant growth rate C. exponential, with a generally increasing growth rate D. on a straight linear increase with time E. unaffected by technology
17. In the last 50 years of the 20 th century, world population grew from billion to over 6 billion. A. 5 B. 4 C. 3.5 D. 3 E. 2.5
18. Most of the more-developed countries have A. low death rates and low birth rates B. low death rates and high birth rates C. high death rates and low birth rates D. high death rates and high birth rates

19. Today, the less-developed countries have A. low death rates and high birth rates B. low death rates and low birth rates C. high death rates and low birth rates D. high death rates and high birth rates	
20. In the 1998 St. Lawrence River Valley ice storm, freezing rain fell for	_ over 5 days.
21. In the 1998 St. Lawrence River Valley ice storm, 45 people died from A. hypothermia B. ice falls C. carbon monoxide poisoning D. fire E. all of these	
22. The overall increase in Canadian natural disasters from 1900 to 2005 is due mainly to A. geologic disasters B. weather-related disasters C. meteor impacts D. all of these	
23. Which of the following is not one of Public Safety Canada's four pillars of emergency material A. response B. recovery C. mitigation D. evacuation E. preparedness	nagement?
A. response B. recovery C. mitigation D. evacuation	nagement?

24. The amount of water recommended for a home emergency kit is A. 1 litre per person per day B. 2 litres per person per day C. 4 litres per person per day D. 8 litres per person per day
25. Disasters occur where the Earth unleashes its concentrated energy. True False
26. In general, there is an inverse correlation between the frequency and the magnitude of a disaster process. True False
27. If a particular disaster has a high frequency of occurrence, then it also has a large return period (recurrence interval). True False
28. In general, the larger and more energetic the disaster event, the shorter the return period between such events. True False
29. The annual likelihood of a tornado that kills 10 people is less than that of an earthquake killing the same number of people. True False
30. The likelihood over 20 years of a hurricane that kills 1000 people is greater than that of an earthquake that kills 1000 people. True False
31. Of the 40 worst disasters between 1970 and 2005, the most frequent mega-killers were earthquakes. True False

Bangladesh through India and Iran to Turkey. True False
33. Asia dominates the list of the 40 worst killing disasters of the last three decades of the 20th century, with almost 86 percent of the fatalities occurring in these regions. True False
34. The locations of the worst dollar-loss disasters for the insurance industry present a very different picture than the list of worst locations for fatalities in the last three decades of the twentieth century. True False
35. Today, the world growth rate for human population is rapidly declining. True False
36. By the year 2000 B.C.E., the world's total population was over 6 billion. True False
37. At present, the world population is growing at about 1.2 percent per year for a doubling time of 58 years. True False
38. If 6 billion people stood shoulder-to-shoulder with each person having his or her own 1-metre by 30-cm space, the entire world population would fit inside a square fence about 42 kilometres on a side. True False
39. If a 1.2 percent annual rate of human population increase were to continue without change into the future, the volume of human flesh would about equal the volume of the Earth in less than 2,000 years from now. True False

40. When carrying capacity decreases, populations collapse in mass die-offs. True False
41. The difference between a world population in the year 2150 of 3.6 billion or 27 billion rests on a difference of only 1 child per woman. True False
42. A very slow exponential growth rate of population can continue indefinitely on an Earth of finite size and resources. True False
43. Beginning in the eighteenth century, discoveries in science, medicine, and public health caused death rates to drop dramatically. True False
44. World population growth presently varies greatly from one region to another. True False
45. The rate of world population growth has increased from 1.8 percent in 1990 to 4.4 percent in 2000. True False
46. The age distribution of a population (relative proportions of people of different ages) is not important when considering the growth rate of that population. True False
47. In the last 50 years of the 20 th century, the world population of humans grew from 2.5 billion to over 6 billion. True False

48. The majority of Canadian disasters from $1900\ \text{to}\ 2005$ are not due to natural causes.

True False

49. The list of most costly Canadian disasters is dominated by earthquakes, volcanoes, and tsunami.

True False

50. The fact that Canada has not experienced a great geological disaster is in part due to the relatively short history of the country.

True False

c1 Key

1. Most of the 40 deadliest disasters between 1970 and 2005 occurred in a belt runnin Bangladesh through India and Iran to Turkey. This area was particularly vulnerable be	
A. it has a high population density B. most of the world's earthquakes and volcanic eruptions occur here C. precipitation rates are very high in this region, producing frequent, large, and sudde D. it has a high population density and precipitation rates are very high in this region, and sudden floods are correct E. it has a high population density, most of the world's earthquakes and volcanic erupt precipitation rates are very high in this region, producing frequent, large, and sudden	producing frequent, large, tions occur here, and
Abbott - Chapter 01 #1	
2. During the last half of the 20 th century, earthquakes, tsunami, and of deaths from natural disasters. A. volcanic eruptions B. floods C. landslides D. hurricanes E. tornadoes	account for the majority
Abbott - Chapter 01 #2	
3. Based on data for the period from 1947 to 1980, the continent of	_ experienced the greatest
Abbott - Chapter 01 #3	

4. The greatest insurance dollar losses as a result of natural disasters in the last three decades of the 20th century
occurred in A. Mexico
B. China
C. the United States
D. Tibet
E. India
Abbott - Chapter 01 #4
5. Based on insurance industry records of economic loss from natural disasters, 32 of the 40 most expensive disasters between 1970 and 2005 were and floods.
A. earthquakes
B. volcanic eruptions
C. storms
D. landslides
E. fires
Abbott - Chapter 01 #5
6. The return period of a disaster is the average number of years A. before survivors return to their homes B. before the economy returns to pre-disaster levels C. it takes for emotional recovery of victims D. between same-sized events E. between events of the same type, regardless of size
Abbott - Chapter 01 #6
7. Which of the following disasters has the highest probability of causing a "10-fatality event" each year? A. an earthquake B. a volcanic eruption
C. a hurricane
D. a tornado
E. a flood
Abbott - Chapter 01 #7
21 D 2 G 0

8. Which of the following disasters has the highest probability of causing a "1,000-fatality event" each year? A. an earthquake B. a volcanic eruption C. a hurricane D. a tornado E. a flood
Abbott - Chapter 01 #8
9. The rapid increase in human population during the past several centuries is an example of growth.
A. linear
B. algebraic
C. parabolic D. integrated
E. exponential
<u>a.</u> caponentia
Abbott - Chapter 01 #9
10. In the last two or three centuries A. birth rates have changed little, while death rates have plunged B. both birth rates and death rates have plunged C. both birth rates and death rates have skyrocketed D. birth rates have skyrocketed, while death rates have plunged
Abbott - Chapter 01 #10
11. The present human population of the world is a little more than A. 500 million B. 6 billion C. 60 billion D. 100 billion E. one trillion
Abbott - Chapter 01 #11

12. The growth rate of the world population equals
A. the birth rate plus the death rate
B. the birth rate minus the death rate
C. the death rate minus the birth rate
D. None of these are correct.
D. None of these are correct.
Abbott - Chapter 01 #12
13. At present, the world population of humans is growing at a rate of% per year.
A. 0.02
B. 0.12
<u>C.</u> 1.2
D. 12
E. 22
Abb. 44 Character 01 #12
Abbott - Chapter 01 #13
14. At present, after subtracting deaths from births, world population increases 1.3 percent per year for a
doubling time of
<u>A.</u> 58 years
B. 14 years
C. 140 years
D. 70 years
E. 280 years
Abbott - Chapter 01 #14
15. At any out the small and the state of house of the same has been small and the same and the
15. At present, the world population of humans grows by over million per year.
A. 0.08
B. 0.8
C. 8
<u>D.</u> 80
E. 800
Abbott - Chapter 01 #15

16. The growth of human population worldwide over the past 1000 years has been A. essentially zero
B. exponential, with a constant growth rate
<u>C.</u> exponential, with a generally increasing growth rate
D. on a straight linear increase with time
E. unaffected by technology
E. didirected by technology
Abbott - Chapter 01 #16
17. In the last 50 years of the 20 th century, world population grew from billion to over 6 billion.
A. 5
B. 4
C. 3.5
D. 3
<u>E.</u> 2.5
Abbott - Chapter 01 #17
10. Most of the more developed sountries have
18. Most of the more-developed countries have
A. low death rates and low birth rates
B. low death rates and high birth rates
C. high death rates and low birth rates
D. high death rates and high birth rates
Abbott - Chapter 01 #18
19. Today, the less-developed countries have
<u>A.</u> low death rates and high birth rates
B. low death rates and low birth rates
C. high death rates and low birth rates
D. high death rates and high birth rates
Abbott - Chapter 01 #19

20. In the 1998 St. Lawrence River Valley ice storm, freezing rain fell for	_ over 5 days.
B. 48 hours <u>C.</u> 80 hours	
D. 100 hours	
Abbott - Chapter 01 #20	
21. In the 1998 St. Lawrence River Valley ice storm, 45 people died from A. hypothermia B. ice falls C. carbon monoxide poisoning	
D. fire E. all of these	
Abbott - Chapter 01 #21	
22. The overall increase in Canadian natural disasters from 1900 to 2005 is due mainly to A. geologic disasters B. weather-related disasters C. meteor impacts D. all of these	<u> </u> .
Abbott - Chapter 01 #22	
23. Which of the following is not one of Public Safety Canada's four pillars of emergency materials. A. response B. recovery C. mitigation D. evacuation E. preparedness	anagement?
Abbott - Chapter 01 #23	
Aubott - Grupter 01 #23	

24. The amount of water recommended for a home emergency kit is A. 1 litre per person per day <u>B.</u> 2 litres per person per day C. 4 litres per person per day
D. 8 litres per person per day
Abbott - Chapter 01 #24
25. Disasters occur where the Earth unleashes its concentrated energy. TRUE
Abbott - Chapter 01 #25
26. In general, there is an inverse correlation between the frequency and the magnitude of a disaster process. TRUE
Abbott - Chapter 01 #26
27. If a particular disaster has a high frequency of occurrence, then it also has a large return period (recurrence interval). FALSE
Abbott - Chapter 01 #27
28. In general, the larger and more energetic the disaster event, the shorter the return period between such events. FALSE
Abbott - Chapter 01 #28
29. The annual likelihood of a tornado that kills 10 people is less than that of an earthquake killing the same number of people. FALSE
Abbott - Chapter 01 #29
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30. The likelihood over 20 years of a hurricane that kills 1000 people is greater than that of an earthquake that kills 1000 people. TRUE
Abbott - Chapter 01 #30
31. Of the 40 worst disasters between 1970 and 2005, the most frequent mega-killers were earthquakes. TRUE
Abbott - Chapter 01 #31
32. In the period between 1970 and 2005, 26 of the 40 worst disasters occurred in a belt running from Bangladesh through India and Iran to Turkey. TRUE
Abbott - Chapter 01 #32
33. Asia dominates the list of the 40 worst killing disasters of the last three decades of the 20th century, with almost 86 percent of the fatalities occurring in these regions. TRUE
Abbott - Chapter 01 #33
34. The locations of the worst dollar-loss disasters for the insurance industry present a very different picture than the list of worst locations for fatalities in the last three decades of the twentieth century. TRUE
Abbott - Chapter 01 #34
35. Today, the world growth rate for human population is rapidly declining. FALSE
Abbott - Chapter 01 #35

36. By the year 2000 B.C.E., the world's total population was over 6 billion. FALSE
Abbott - Chapter 01 #36
37. At present, the world population is growing at about 1.2 percent per year for a doubling time of 58 years. TRUE
Abbott - Chapter 01 #37
38. If 6 billion people stood shoulder-to-shoulder with each person having his or her own 1-metre by 30-cm space, the entire world population would fit inside a square fence about 42 kilometres on a side.

42. A very slow exponential growth rate of population can continue indefinitely on an Earth of finite size and resources. FALSE
Abbott - Chapter 01 #42
43. Beginning in the eighteenth century, discoveries in science, medicine, and public health caused death rates to drop dramatically. TRUE
Abbott - Chapter 01 #43
44. World population growth presently varies greatly from one region to another. TRUE
Abbott - Chapter 01 #44
45. The rate of world population growth has increased from 1.8 percent in 1990 to 4.4 percent in 2000. FALSE
Abbott - Chapter 01 #45
46. The age distribution of a population (relative proportions of people of different ages) is not important when considering the growth rate of that population. FALSE
Abbott - Chapter 01 #46
47. In the last 50 years of the 20 th century, the world population of humans grew from 2.5 billion to over 6 billion. TRUE
Abbott - Chapter 01 #47

48. The majority of Canadian disasters from 1900 to 2005 are not due to natural causes.

TRUE

Abbott - Chapter 01 #48

49. The list of most costly Canadian disasters is dominated by earthquakes, volcanoes, and tsunami.

FALSE

Abbott - Chapter 01 #49

50. The fact that Canada has not experienced a great geological disaster is in part due to the relatively short history of the country.

TRUE

c1 Summary

<u>Category</u> # of Questions
Abbott - Chapter 01 50