



Quiz: Fragile Systems

1.



The MOST abundant element in the Earth's atmosphere is _____.

Student Response	Value	Correct Answer
A. oxygen		
B. silicon		
C. hydrogen		
D. iron		
 E. nitrogen	100%	

Score: 1/1

2.



Of the water on Earth, most is found in _____.

Student Response	Value	Correct Answer
1. the oceans		
2. rivers and lakes		
3. the atmosphere		
 4. glaciers and ice caps	0%	
5. the ground		

Score: 0/1



3.

If two hurricanes hit Nova Scotia in 40 years of recordkeeping, the average return period for hurricanes in Nova Scotia is _____ years.

Student Response	Value	Correct Answer
A. 2		
 B. 20	100%	
C. 40		
D. 80		
E. 160		
Score: 1/1		

4.



Matter able to temporarily change its shape and to return to its original shape when the force is released is _____.

Student Response	Value	Correct Answer
 A. elastic	100%	
B. strain		
C. plastic		
D. ductile		
E. brittle		
Score: 1/1		

5.



Which component of the Earth system is the most fragile and

vulnerable to natural disasters?

Student Response	Value	Correct Answer
 A. human population	100%	
B. volcanoes and landslides		
C. the atmosphere and oceans		
D. the Earth's continents		
E. transportation and utilities		
Score: 1/1		



6.

If a meteor strikes the ocean at the equator and causes sea water to boil, this is an example of _____.

Student Response	Value	Correct Answer
A. the Bermuda High		
B. the continuity effect		
C. the Coriolis effect		
D. Newton's Law		
 E. energy conservation	100%	
Score: 1/1		



7.

The count of all protons and neutrons in the nucleus of an atom is called the _____.

Student Response	Value	Correct Answer
A. atomic number		
 B. atomic mass number	100%	
C. Avogadro's number		
D. covalence		
E. gluon number		
Score: 1/1		

8.

All of the following are forms of energy EXCEPT:


Student Response	Value	Correct Answer
A. latent heat		
B. work		
C. kinetic energy		
 D. force	100%	
E. sensible heat		
Score: 1/1		

9.

The element that is the greatest component of the Earth's core is _____.

Student Response	Value	Correct Answer
A. oxygen		


- B. nitrogen
- ☒ C. iron
- D. silicon
- E. hydrogen

100% 

Score: 1/1

10.

If the population growth is exponential, 60 years from now the Earth's population will likely be _____.

Student Response	Value	Correct Answer
A. eliminated by a meteor impact		
B. half of the present population		
C. about the same as now		
<input checked="" type="checkbox"/> D. roughly double of the present population	100% 	
E. roughly 6 times the present population		

Score: 1/1

11.



Given the graph below. For a magnitude 7 earthquake, the return period (days) is roughly _____.

Student Response	Value	Correct Answer
A. 0.5		

- B. 7
-  C. 10 0% 
- D. 36
- E. 52
- Score: 0/1

12.

Which disaster is related to the dilution of energy?

Student Response	Value	Correct Answer
1. earthquakes		
 2. thunderstorms	0%	
3. volcanoes		
4. hurricanes		
5. floods		
Score:	0/1	



13.

Which statement is TRUE?

Student Response	Value	Correct Answer
A. If the Earth's energy supply were limitless, then population could increase at the present rate forever.		
B. No evidence yet exists of present human population nearing the holding		

capacity of Earth.



- C. Improved predictions of natural disasters can significantly reduce property losses.
- D. Population growth rate in less-developed countries is less than in more-developed countries.

 E. Either we limit our population growth 100%  now, or we savagely compete for scarce resources in the future.

Score: 1/1

14.



Which statement is CORRECT?

Student Response	Value	Correct Answer
A. Energy is power times distance.		
B. Force is quantified in newtons per square meter.		
C. Power is energy x time.		
D. Pressure per unit time is force.		
 E. Stress is a force per unit area.	100%	

Score: 1/1



15.

A material that is NOT very compressible and flows easily is _____.

Student Response	Value	Correct Answer
 A. a liquid with low viscosity B. a gas with low viscosity C. a solid D. a gas with high viscosity E. a liquid with high viscosity	100%	
Score: 1/1		

16.



Stratification of the Earth, ocean, and atmosphere is expected because of the _____ of the materials involved.

Student Response	Value	Correct Answer
A. mass B. energy C. volume D. specific heat  E. density	100%	
Score: 1/1		

17.

The natural crystal shape of common table salt (sodium chloride) is _____.



Student Response	Value	Correct Answer
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-  A. cubic 100% 
- B. hexagonal column
- C. dendrite
- D. tetrahedron
- E. octahedron

Score: 1/1

18.

The time between the passage of one wave crest and the next is called the _____.

Student Response	Value	Correct Answer
A. amplitude		
B. epoch		
C. wavelength		
 D. frequency	0%	
E. period		

Score: 0/1

19.

Which of the following disaster scales applies to impacts from space?



Student Response	Value	Correct Answer
A. Richter		
 B. Torino	100%	

- C. Fujita
- D. Saffir-Simpson
- E. Modified Mercalli

Score: 1/1

20.

Which element is a metal somewhat like iron?

Student Response	Value	Correct Answer
A. iridium	100%	
 B. manganese		
C. titanium		
D. magnesium		
E. silicon		
Score: 1/1		