1.

In terms of area, how large were the impact marks caused by the collision of Comet Shoemaker-Levy 9 on the surface of Jupiter?

Student Response Value Correct Answer

A. 2 times the size of the Chicxulub impact
B. around the size of the Earth

C. around the size of Texas D. around the size of B.C.

E. 5 times the size of the Chicxulub impact 0%

Score: 0/1

2.

Lots of carbon dioxide was released into the atmosphere after the impact at Chicxulub. Where did the gas come from?

Student Response Value Correct Answer

A. from burning dinosaurs

B. from the vaporization of limestone
C. from vaporization of evaporite deposits

D. from the vaporized extra-terrestrial object itself

 \blacksquare E. from combining gases in the atmosphere after the initial blast 0%

Score: 0/1

3.

Which of the following statements about mass

extinctions is FALSE?

within 1 million years.

Student Response Value Correct Answer

A. Mass extinctions are those that collectively occur

B. Mass extinctions are caused by a variety of factors.

C. During a mass extinction species from all environments,

terrestrial and marine, are affected.

D. A mass extinction is an event that wipes out > 30% of

species existing at any one time. Ø E Mass extinctions have occurred more frequently in the 100% last 65 million years. Score: 1/1 4. Which of the following would be the MOST EFFECTIVE way to cause a mass extinction today? **Student Response** Value Correct Answer Cut down deciduous trees (those that lose all of their leaves A. for part of the year). B. Stop fertilizing farm fields. ₽C. Acidify major inland lakes.0% D. Exterminate the majority of the biota at the base of the food chain. E. Exterminate all top predators in North America. Score: 0/15. Which of the following may be responsible for a cyclical period of extinction every 26 to 30 million years? **Student Response** Value **Correct Answer** A. Van Allen belt **₽**B. Jovian gravity well 0% C. Siberian Traps \checkmark D. Oort Cloud E Asteroid belt Score: 0/1

6.

What is the Principle of Faunal Succession?

Student Response Value Correct Answer

A.	Fossils of organisms, preserved in rocks, succeed
one another thru time in a predictable, identifi	_
В.	Species of plants and animals evolve then became
extinct through Earth's history.	•
C.	Fossils found in the lowest unit in a sequence of
sediments will be the oldest.	0%
D.	Characteristics of species that are extinct can be
studied from their fossils.	1
E.	The study of the correlation and relative age of rock
strata by using the fossils contained within the	-
Solution of assing the reasons committee within the	om to curred Droomang.up.ij.
Score: 0/1	
5001C. 0/1	
7.	
Α	all of the following have been used as supporting
evidence for an impact event in the late Creta	-
evidence for an impact event in the face event	
Student Response	Value Correct Answer
D	aciers in Gondwana 100%
_ 11.	f a large circular structure off the coast of Mexico
b. the presence of	a large circular structure off the coast of Mexico
C. the presence of	f shocked quartz
D. the extinction of	•
	f elevated levels of iridium
L. the presence of	relevated levels of matum
Score: 1/1	
Secte. 1/1	
8.	
V	Which extinction event was probably the "worst day"
for the biosphere?	vincii extinction event was probably the worst day
for the biosphere:	
Student Response	Value Correct Answer
A. Late Ordovician	value Correct Answer
B. Cretaceous/Tertiary	
D. Cretaceous/ remary D. Permo/Triassic 100% ✓	
D. Late Devonian	
E. End Triassic	
E. Eliq ITIASSIC	
Score: 1/1	

Score: 1/1

9.

to _____.

How could oceans become anoxic (lack oxygen)? Due

Student Response

Value Correct Answer

A. intense heating from mid-ocean ridge driving off

oxygen gas from marine water

B. a slow down in ocean circulation when polar waters

was not cold enough to sink during warm climatic intervals

a chemical reaction between iridium and oxygen in

sea water 0%

D. oxygen being included in the molecular structure of

minerals in clay

E. oxygen sinking to the ocean floor and being trapped

in sediments during periods of intense cold

Score: 0/1

10.

Concerning the Permo-Triassic extinction, which of

the following statements is FALSE?

Student Response ValueCorrect Answer

A. Over 95% of all species became extinct.

B. The continents were grouped together in a land mass called

Pangea.

The extinction was largely restricted to land based creatures.

100%

D. Trilobites went into extinction.

E. The Siberian Traps may have contributed to the mass extinction

event.

Score: 1/1

11.

What percent of marine species were lost during the

Cretaceous-Tertiary extinction?

Student Response Value Correct Answer

A. only some, about 25%

B. about half, 50%C. all of them, 100%

D. none, 0%

☑ E. almost all, 80% 100%

Score: 1/1

12.

Fossil fern spores can be used as a proxy for which of the following?

Student Response Value Correct Answer

A. glacial events

B. ocean anoxia

☑C. forest fires 100%

D. tsunamiE. earthquakes

Score: 1/1

13.

Which of the following likely contributed to the significant increase in greenhouse gases in the atmosphere in the Late Cretaceous?

Student Response Value Correct Answer

A. emission of volcanic gases

B. formation of limestone CaCO₃ in the oceans

C. vaporization of basalt rock

D. chemical reactions which destroyed the ozone layer 0%

E. global-scale fires

Score: 0/1

14.

How did Ussher determine the age of the Earth?

Student Response

Value Correct Answer

- He based it on the life span of all the creatures A. thought to have existed since the Cambrian.
- He based it on a careful examination of the biostratigraphy of dinosaurs and other Mesozoic creatures.
- C. He used information from the thickness of ocean sediments and the rates these are being deposited today.
- He based it on the difference between age of craters on Mercury and Mars and those found on the Earth and the Moon.

₽E. \checkmark He used information from the Bible. 100%

Score: 1/1

15.

Approximately how many objects enter the Earth's atmosphere over 24 hours?

Student Response Value **Correct Answer**

5 A. B. 10 C. 100 D. 1000

₽E. \checkmark 100,000 million 100%

Score: 1/1

16.

Which of the following statements is FALSE?

Student Response	Value Correct Answer
A.	NASA's Spaceguard is Earth's defense against
impacts from Near Earth Objects.	✓
∄ B.	We expect the frequency of Torino Scale level 2-4
to be more frequent than level 8-10.	0%
C.	An asteroid that's a "civilization killer" is
SMALLER than one that causes a mass extin	action.
D.	The potential risk of being killed by an impact event
is greatly affected by the size of an astero	id, the size of the area affected, and the recurrence
interval.	
E.	The Manicouagan crater is one of many craters that

resulted	from a fragmented comet impacting Earth.	
Score:	0/1	
17.		
	How rapid was the Permo-Triassic extinction thought	
to be?		
Student Response Value Correct Answer		
A.	around 3 million years	
B.	between 1.5 – 2.5 million years	
₽C.	less than 1 million years 100%	
D. E.	between 5 – 10 million years	
L.	around 2 million years	
Score:	1/1	
18.		
	Why does the Forth NOT have an immed assured	
Why does the Earth NOT have an impact-scarred surface like the Moon?		
surface i	ike the Woon:	
	Student Response Value Correct Answer	
A.	The Moon's atmosphere attracts the majority of large space	
debris.		
B.	Earth's surface has undergone change and continental	
reconfigu		
C. D.	The Earth is slightly older than the Moon. The Earth has experienced less impacts than the Moon.	
D. ₽E.	The Earth is larger and has a stronger gravitational field.0%	
E-L.	The Earth is larger and has a stronger gravitational field.070	
Score:	0/1	
19.		
	Pangaea is a supercontinent that	
	rangaca is a supercontinient that	

Student Response Value Correct Answer

A. existed during the Ordovician B. existed during the Precambrian

C. fragmented throughout the Mesozoic

D. formed during the Jurassic 0%

E. had undergone complete fragmentation by the late Permian

Score: 0/1

20.

At the end of which period did the Earth loose over

95% of its species?

Student Response Value Correct Answer

A. Permian
B. Silurian
C. Mesozoic
D. Triassic
E. Cretaceous

 \checkmark