**View Attempt 1 of 1**

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| --- | --- | --- |
| Title: | | **Quiz: Meteors/Extinctions (practice)** |
| Started: | | April 4, 2012 11:38 PM |
| Submitted: | | April 5, 2012 12:00 AM |
| Time spent: | | [00:21:41](javascript:openNewWindow('viewAttemptEventsLog.dowebct?assmtAttemptId=9052375288191','ViewAccessLog','500','500')) |
| **Total score:** | | **14/20 = 70%** https://www.vista.ubc.ca/webct/images/dot_divide.gifTotal score adjusted by 0.0 https://www.vista.ubc.ca/webct/images/dot_divide.gifMaximum possible score: 20 |
| **1.** |  |
|  | |  |  | | --- | --- | | The evolution of new species following a mass extinction is called \_\_\_\_\_\_. | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | a fossil range |  | | B. | a biosphere |  | | C. | an impact event |  | | D. | a period |  | | Student ResponseE. | a radiation | 100% | | | | Score: | 1/1 | |  | | |
| **2.** |  |
|  | |  |  | | --- | --- | | "Nemesis" has been used to explain which of the following? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | gravity |  | | B. | Raup Sepkoski periodicity |  | | Student ResponseC. | the existence of the Oort cloud outside the orbit of Pluto | 0% | | D. | gravitational kicks from the densest part of the galactic plane |  | | E. | the existence of black holes |  | | | | Score: | 0/1 | |  | | |
| **3.** |  |
|  | |  |  | | --- | --- | | Which of the following extinction events bracket the Mesozoic? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | Late Devonian and the Ordovician |  | | B. | Ordovician and the Cretaceous-Tertiary |  | | C. | Permo-Triassic and the end Triassic |  | | D. | Permo-Triassic and the Cretaceous-Tertiary |  | | Student ResponseE. | Late Devonian and the Cretaceous-Tertiary | 0% | | | | Score: | 0/1 | |  | | |
| **4.** |  |
|  | |  |  | | --- | --- | | Lots of carbon dioxide was released into the atmosphere after the impact at Chicxulub. Where did the gas come from? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student ResponseA. | from the vaporization of limestone | 100% | | B. | from combining gases in the atmosphere after the initial blast |  | | C. | from burning dinosaurs |  | | D. | from vaporization of evaporite deposits |  | | E. | from the vaporized extra-terrestrial object itself |  | | | | Score: | 1/1 | |  | | |
| **5.** |  |
|  | |  |  | | --- | --- | | Fossil fern spores can be used as a proxy for which of the following? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | glacial events |  | | B. | ocean anoxia |  | | Student ResponseC. | forest fires | 100% | | D. | tsunami |  | | E. | earthquakes |  | | | | Score: | 1/1 | |  | | |
| **6.** |  |
|  | |  |  | | --- | --- | | Which of the following is closest to the estimate that James Ussher made for the age of the Earth? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student ResponseA. | 6,000 years | 100% | | B. | 600,000,000 years |  | | C. | 6 billion years |  | | D. | 600,000 years |  | | E. | 600 years |  | | | | Score: | 1/1 | |  | | |
| **7.** |  |
|  | |  |  | | --- | --- | | It is thought that lots of sulfur gases were released into the atmosphere following the impact at Chicxulub. Where did these gases come from? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | combining elements in the atmosphere after the initial blast |  | | B. | burning dinosaurs |  | | C. | the vaporized comet |  | | D. | evaporites |  | | Student ResponseE. | limestone | 0% | | | | Score: | 0/1 | |  | | |
| **8.** |  |
|  | |  |  | | --- | --- | | What was one of most important contributions by William Smith to Biostratigraphy? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | fossils from different parts of the world will show no similarities |  | | B. | fossils are creatures that have become extinct |  | | Student ResponseC. | fossils can be used to characterize certain geological strata | 100% | | D. | rocks over 500 million years old contain no fossils |  | | E. | fossil mammoths once existed in Europe |  | | | | Score: | 1/1 | |  | | |
| **9.** |  |
|  | |  |  | | --- | --- | | What happened at Tunguska? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | A series of closely spaced impacts from space occurred here. |  | | B. | It is ground zero for the onset of an extensive glacial period. |  | | Student ResponseC. | An extraterrestrial object produced an airburst that levelled millions of trees. | 100% | | D. | A comet impacted here and produced a crater about the size of Washington, DC. |  | | E. | This is where mammals started to out-compete dinosaurs, signalling the fall of dinosaurs. |  | | | | Score: | 1/1 | |  | | |
| **10.** |  |
|  | |  |  | | --- | --- | | Which of the following would be at the base of a marine food chain? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student ResponseA. | plankton | 100% | | B. | dolphins |  | | C. | tuna |  | | D. | snails |  | | E. | worms |  | | | | Score: | 1/1 | |  | | |
| **11.** |  |
|  | |  |  | | --- | --- | | Which of the following regarding the biosphere is TRUE? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student ResponseA. | The biosphere suffered a major drop in diversity at the end of the Permian. | 100% | | B. | The biosphere does not interact with either the atmosphere, ocean, or the solid Earth. |  | | C. | Dinosaurs were not part of the Tertiary biosphere. |  | | D. | The biosphere has remained constant and unchanging since the Permo-Triassic extinction. |  | | E. | The biosphere came into existence around 10 million years ago. |  | | | | Score: | 1/1 | |  | | |
| **12.** |  |
|  | |  |  | | --- | --- | | Which statement is TRUE? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | The Principle of Faunal Succession proves that organisms that are more successful are more likely to be preserved. |  | | B. | There have been less than 4 major mass extinctions in the Phanerozoic Eon. |  | | C. | The vast majority of geologic time falls within the Paleozoic Era, when "hard parts" had not yet developed. |  | | D. | The geologic time scale has more divisions in more recent time because of the proliferation of species after the last Ice Age. |  | | Student ResponseE. | The geologic time scale is based on mass extinctions as determined from the fossil record. | 100% | | | | Score: | 1/1 | |  | | |
| **13.** |  |
|  | |  |  | | --- | --- | | During which of the following time would you NOT expect to find dinosaurs? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | Mesozoic |  | | Student ResponseB. | Paleozoic | 100% | | C. | Jurassic |  | | D. | Cretaceous |  | | E. | Triassic |  | | | | Score: | 1/1 | |  | | |
| **14.** |  |
|  | |  |  | | --- | --- | | Unlike the period close to the Permo-Triassic extinction event, the mid-Cretaceous was a time of high sea levels. What is the MOST LIKELY cause of this rise? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | increase in rate of bombardment of icy comets |  | | B. | deepening of the ocean basins |  | | Student ResponseC. | increased seafloor spreading rates | 100% | | D. | increased precipitation |  | | E. | increase in glacial ice at the poles |  | | | | Score: | 1/1 | |  | | |
| **15.** |  |
|  | |  |  | | --- | --- | | When you place the continents in their Late Triassic locations, the Manicouagan crater in Quebec, Canada lines up with which of the following? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | the Siberian Traps in Russia |  | | B. | the Deccan Traps in India |  | | C. | the Meteor Crater in Arizona |  | | D. | the Chicxulub impact crater in Mexico |  | | Student ResponseE. | the Rochechouart Crater in France | 100% | | | | Score: | 1/1 | |  | | |
| **16.** |  |
|  | |  |  | | --- | --- | | Which of the following has NOT been identified as a possible contributory cause of mass extinctions? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | changes in rates of sea floor spreading |  | | B. | earthquakes on land |  | | Student ResponseC. | degree of continental fragmentation | 0% | | D. | composition of the oceans |  | | E. | volcanic activity |  | | | | Score: | 0/1 | |  | | |
| **17.** |  |
|  | |  |  | | --- | --- | | How rapid was the Permo-Triassic extinction thought to be? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | between 1.5 – 2.5 million years |  | | Student ResponseB. | less than 1 million years | 100% | | C. | around 3 million years |  | | D. | between 5 – 10 million years |  | | E. | around 2 million years |  | | | | Score: | 1/1 | |  | | |
| **18.** |  |
|  | |  |  | | --- | --- | | Your chance of dying as a result of an extraterrestrial impact is \_\_\_\_\_\_. | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | about the same risk you take each time you fly somewhere on vacation |  | | B. | 1 : 300,000 |  | | C. | 1 : 2,000 |  | | Student ResponseD. | 1 : 100,000 | 0% | | E. | greater than your chance of dying in a car-related incident |  | | | | Score: | 0/1 | |  | | |
| **19.** |  |
|  | |  |  | | --- | --- | | Which of the following are often associated with the eruption of flood basalts? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | increased salinity of the oceans |  | | Student ResponseB. | change in global climate | 100% | | C. | reduced greenhouse effect |  | | D. | decrease in average global temperature |  | | E. | rapid periods of evolution |  | | | | Score: | 1/1 | |  | | |
| **20.** |  |
|  | |  |  | | --- | --- | | What kind of damage to the biosphere would the comet Shoemaker Levy 9 have caused if it had hit Earth? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | many times more severe than the K/T extinction event |  | | B. | more damage in the oceans than on land |  | | C. | equivalent to the K/T extinction event |  | | Student ResponseD. | destroyed all mammalian life | 0% | | E. | anything smaller than 25 kg would probably survive |  | | | | Score: | 0/1 | |

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| Title: | | **PQ1 Impacts** |
| Started: | | April 4, 2012 11:08 PM |
| Submitted: | | April 4, 2012 11:11 PM |
| Time spent: | | [00:03:02](javascript:openNewWindow('viewAttemptEventsLog.dowebct?assmtAttemptId=9052277735191','ViewAccessLog','500','500')) |
| **Total score:** | | **5/5 = 100%** https://www.vista.ubc.ca/webct/images/dot_divide.gifTotal score adjusted by 0.0 https://www.vista.ubc.ca/webct/images/dot_divide.gifMaximum possible score: 5 |
| **1.** |  |
|  | |  |  | | --- | --- | | Which of the following likely contributed to the significant increase in greenhouse gases in the atmosphere in the Late Cretaceous? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | formation of limestone CaCO3 in the oceans |  | | B. | vaporization of basalt rock |  | | Student ResponseC. | emission of volcanic gases | 100% | | D. | global-scale fires |  | | E. | chemical reactions which destroyed the ozone layer |  | | | | Score: | 1/1 | |  | | |
| **2.** |  |
|  | |  |  | | --- | --- | | Which of the following sequence of events BEST describes the probable conditions on Earth following the impact at Chicxulub? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | Hot house conditions (1 – 2 days) ⇒ ⇒ Cold house conditions (3 – 4 years) ⇒ ⇒ Glaciation (2 – 3 million years) |  | | Student ResponseB. | Initial inferno and vaporization of all close to impact ⇒ ⇒ Cold house conditions (2 months) ⇒ ⇒ Hot house conditions (5 years) | 100% | | C. | Hot house conditions (1 – 2 days) ⇒ ⇒ Cold house conditions (3 – 4 years) |  | | D. | Initial inferno and vaporization of all close to impact ⇒ ⇒ Cold house conditions (3 – 4 years) ⇒ ⇒ Hot house conditions (1 – 2 days) |  | | E. | Initial inferno and vaporization of all close to impact ⇒ ⇒ Cold house conditions (3 – 4 years) ⇒ ⇒ Glaciation (1 – 2 decades) |  | | | | Score: | 1/1 | |  | | |
| **3.** |  |
|  | |  |  | | --- | --- | | Asteroids are \_\_\_\_\_\_. | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student ResponseA. | generally found inside the orbit of Jupiter | 100% | | B. | primarily composed of condensed gases |  | | C. | comets without tails |  | | D. | larger than the entire of British Columbia |  | | E. | mainly composed of sedimentary rocks |  | | | | Score: | 1/1 | |  | | |
| **4.** |  |
|  | |  |  | | --- | --- | | During which of the following time would you NOT expect to find dinosaurs? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | Triassic |  | | B. | Cretaceous |  | | C. | Mesozoic |  | | Student ResponseD. | Paleozoic | 100% | | E. | Jurassic |  | | | | Score: | 1/1 | |  | | |
| **5.** |  |
|  | |  |  | | --- | --- | | About how long does it take material from the Oort cloud to travel to the inner solar system? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student ResponseA. | 1 million years | 100% | | B. | 100,000 years |  | | C. | 24-26 million years |  | | D. | 1,000 years |  | | E. | 10 million years |  | | | | Score: | 1/1 | |  | | |

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| --- | --- | --- | --- |
| Title: | | | **PQ2 Impacts** |
| Started: | | | April 4, 2012 11:16 PM |
| Submitted: | | | April 4, 2012 11:17 PM |
| Time spent: | | | [00:00:33](javascript:openNewWindow('viewAttemptEventsLog.dowebct?assmtAttemptId=9052317859191','ViewAccessLog','500','500')) |
| **Total score:** | | | **5/5 = 100%** https://www.vista.ubc.ca/webct/images/dot_divide.gifTotal score adjusted by 0.0 https://www.vista.ubc.ca/webct/images/dot_divide.gifMaximum possible score: 5 |
| **1.** | |  |
|  | | |  |  | | --- | --- | | During which of the following time would you NOT expect to find dinosaurs? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | Triassic |  | | B. | Jurassic |  | | C. | Mesozoic |  | | D. | Cretaceous |  | | Student ResponseE. | Paleozoic | 100% | | | | Score: | 1/1 | |  | | |
| **2.** | |  |
|  | | |  |  | | --- | --- | | The evolution of new species following a mass extinction is called \_\_\_\_\_\_. | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | a period |  | | B. | a biosphere |  | | Student ResponseC. | a radiation | 100% | | D. | a fossil range |  | | E. | an impact event |  | | | | Score: | 1/1 | |  | | |
| **3.** | |  |
|  | | |  |  | | --- | --- | | Eruptions of flood basalts have often been associated with \_\_\_\_\_\_. | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | rapid periods of evolution |  | | Student ResponseB. | increased average global temperature | 100% | | C. | decreased average global temperature |  | | D. | decreased greenhouse effect |  | | E. | increased salinity of the oceans |  | | | | Score: | 1/1 | |  | | |
| **4.** | |  |
|  | | |  |  | | --- | --- | | What was one of most important contributions by William Smith to Biostratigraphy? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | fossil mammoths once existed in Europe |  | | B. | fossils are creatures that have become extinct |  | | C. | rocks over 500 million years old contain no fossils |  | | Student ResponseD. | fossils can be used to characterize certain geological strata | 100% | | E. | fossils from different parts of the world will show no similarities |  | | | | Score: | 1/1 | |  | | |
| **5.** | |  |
|  | | |  |  | | --- | --- | | Which of the following has NOT been proposed to have been responsible for the Permo-Triassic Extinction? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | a meteor impact |  | | B. | Siberian Traps activity |  | | C. | stagnant oceans |  | | D. | low sea level |  | | Student ResponseE. | advancing Ice Age | 100% | | | | Score: | 1/1 | |  | | |
| **1.** | |  | |
|  | | |  |  | | --- | --- | | Which of the following would be at the base of a food chain on land? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | Human |  | | Student Response B. | **Grass** | 100% | | C. | Soil |  | | D. | Worms |  | | E. | Plankton |  | | | | Score: | 1/1 | |  | | | |
| **2.** | |  | |
|  | | |  |  | | --- | --- | | What is the Oort cloud? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student Response A. | A cloud of debris between the orbit of Mars and Jupiter. | 0% | | B. | A rapidly moving cloud of hot ash and gas that flows down the flanks of a stratovolcano. |  | | C. | The cloud of carbon dioxide that surrounded the Earth following the K/T impact event. |  | | D. | A spherical cloud of comets surrounding the solar system beyond the orbit of Pluto. |  | | E. | A cloud of carbon dioxide that surrounded the Earth following large scale volcanic events in the Deccan area of India. |  | | | | Score: | 0/1 | |  | | | |
| **3.** | |  | |
|  | | |  |  | | --- | --- | | Fossil fern spores can be used as a proxy for which of the following? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student Response A. | glacial events | 0% | | B. | ocean anoxia |  | | C. | forest fires |  | | D. | tsunami |  | | E. | earthquakes |  | | | | Score: | 0/1 | |  | | | |
| **4.** | |  | |
|  | | |  |  | | --- | --- | | In terms of biostratigraphy, what is a fossil’s "range"? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student Response A. | **The length of time a fossil species occupies in the geological record.** | 100% | | B. | The extent of the geographical area over which a fossil is found. |  | | C. | The temperature range at which a fossil species was believed to have lived in the ocean. |  | | D. | The distance a fossil species is known to have searched for food. |  | | E. | The flexibility of certain fossil species. |  | | | | Score: | 1/1 | |  | | | |
| **5.** | |  | |
|  | | |  |  | | --- | --- | | Your chance of dying as a result of an extraterrestrial impact is \_\_\_\_\_\_. | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student Response A. | 1 : 300,000 | 0% | | B. | 1 : 2,000 |  | | C. | greater than your chance of dying in a car-related incident |  | | D. | 1 : 100,000 |  | | E. | about the same risk you take each time you fly somewhere on vacation |  | | | | Score: | 0/1 | |  | | | |
| **6.** | |  | |
|  | | |  |  | | --- | --- | | The organisms most responsible for biological extinctions today are \_\_\_\_\_\_. | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student Response A. | fungi | 0% | | B. | domestic cats |  | | C. | domestic dogs |  | | D. | humans |  | | E. | viruses |  | | | | Score: | 0/1 | |  | | | |
| **7.** | |  | |
|  | | |  |  | | --- | --- | | Which of the following is currently NOT a feasible plan to prevent a meteor impact on Earth? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student Response A. | Destroy it with nuclear weapons. | 0% | | B. | Destroy it with enormous space mirrors. |  | | C. | Mine it to remove material, which would shift its orbit. |  | | D. | Attach an engine and nudge the object from its orbit. |  | | E. | All of the above are NOT feasible. |  | | | | Score: | 0/1 | |  | | | |
| **8.** | |  | |
|  | | |  |  | | --- | --- | | Besides a meteorite impact, what was another possible cause of the K/T extinction? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | formation of the Deccan Traps |  | | B. | a magnetic field reversal |  | | Student Response C. | spread of a new virus | 0% | | D. | formation of Pangea |  | | E. | oceanic stagnation (anoxia) |  | | | | Score: | 0/1 | |  | | | |
| **9.** | |  | |
|  | | |  |  | | --- | --- | | What happened at Tunguska? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student Response A. | A comet impacted here and produced a crater about the size of Washington, DC. | 0% | | B. | A series of closely spaced impacts from space occurred here. |  | | C. | It is ground zero for the onset of an extensive glacial period. |  | | D. | An extraterrestrial object produced an airburst that levelled millions of trees. |  | | E. | This is where mammals started to out-compete dinosaurs, signalling the fall of dinosaurs. |  | | | | Score: | 0/1 | |  | | | |
| **10.** | |  | |
|  | | |  |  | | --- | --- | | Which of the following best describes a comet’s composition? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | evaporites |  | | B. | ice and rocky material |  | | Student Response C. | volcanic rock | 0% | | D. | calcium carbonate |  | | E. | sedimentary rock |  | | | | Score: | 0/1 | |  | | | |
| **11.** | |  | |
|  | | |  |  | | --- | --- | | You’re a paleontologist looking for EVIDENCE OF AN ANCIENT GLOBAL FIRE. Which of the following would definitely point to one? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | sudden loss of ferns in tropical forests |  | | Student Response B. | **a sudden increase in fern spores relative to pollen** | 100% | | C. | giant ferns of various ages |  | | D. | lots of ferns in a forest |  | | E. | extinction of fern-eating mammals |  | | | | Score: | 1/1 | |  | | | |
| **12.** | |  | |
|  | | |  |  | | --- | --- | | All of the following are direct or indirect effects of the production of flood basalts. Which would probably have the LEAST effect on the generation of a mass extinction event? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | Student Response A. | acid rain | 0% | | B. | increase in carbon dioxide in the atmosphere |  | | C. | flowing or ponded lava |  | | D. | sealevel change |  | | E. | atmospheric cooling effects |  | | | | Score: | 0/1 | |  | | | |
| **13.** | |  | |
|  | | |  |  | | --- | --- | | "Nemesis" has been used to explain which of the following? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | gravity |  | | Student Response B. | **Raup Sepkoski periodicity** | 100% | | C. | the existence of the Oort cloud outside the orbit of Pluto |  | | D. | gravitational kicks from the densest part of the galactic plane |  | | E. | the existence of black holes |  | | | | Score: | 1/1 | |  | | | |
| **14.** | |  | |
|  | | |  |  | | --- | --- | | What is the CRITICAL issue with all of the impact mitigation strategies? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | All the methods require advanced notice of the impact. |  | | Student Response B. | All the strategies require expensive structures, vehicles, and tools. | 0% | | C. | The technology to execute these plans has yet to be fully developed. |  | | D. | All involve unforeseen consequences that are difficult to predict. |  | | E. | The required landing on asteroid which come in a wide range of sizes, is difficult to plan for. |  | | | | Score: | 0/1 | |  | | | |
| **15.** | |  | |
|  | | |  |  | | --- | --- | | Which of the following is closest to the estimate that James Ussher made for the age of the Earth? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | 600,000 years |  | | B. | 600,000,000 years |  | | C. | 6,000 years |  | | D. | 6 billion years |  | | Student Response E. | 600 years | 0% | | | | Score: | 0/1 | |  | | | |
| **16.** | |  | |
|  | | |  |  | | --- | --- | | Which of the following would be at the BASE of a marine food chain? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | Snails |  | | Student Response B. | Dolphin | 0% | | C. | Tuna fish |  | | D. | Worms |  | | E. | Plankton |  | | | | Score: | 0/1 | |  | | | |
| **17.** | |  | |
|  | | |  |  | | --- | --- | | Which extinction event was probably the "worst day" for the biosphere? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | Late Ordovician |  | | B. | End Triassic |  | | Student Response C. | **Permo/Triassic** | 100% | | D. | Late Devonian |  | | E. | Cretaceous/Tertiary |  | | | | Score: | 1/1 | |  | | | |
| **18.** | |  | |
|  | | |  |  | | --- | --- | | The Cretaceous/Tertiary extinction occurred roughly \_\_\_\_\_\_\_\_ years ago. | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | 6.4 billion |  | | B. | 245 million |  | | Student Response C. | **65 million** | 100% | | D. | 10 million |  | | E. | 64,000 |  | | | | Score: | 1/1 | |  | | | |
| **19.** | |  | |
|  | | |  |  | | --- | --- | | Pangaea is a supercontinent that \_\_\_\_\_\_. | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | existed during the Ordovician |  | | B. | existed during the Precambrian |  | | C. | fragmented throughout the Mesozoic |  | | D. | formed during the Jurassic |  | | Student Response E. | had undergone complete fragmentation by the late Permian | 0% | | | | Score: | 0/1 | |  | | | |
| **20.** | |  | |
|  | | |  |  | | --- | --- | | Concerning the Cretaceous-Tertiary extinction, which the following was a probable contributory factor? | | |  | | | |  | **Student Response** | **Value** | | --- | --- | --- | | A. | glaciation |  | | Student Response B. | volcanism in Siberia | 0% | | C. | impact in Tunguska |  | | D. | formation of the supercontinent Pangea |  | | E. | volcanism in India |  | | | | Score: | 0/1 | |  | | | |

**1.**

|  |  |
| --- | --- |
| Scientists believe that the sixth major mass extinction is on-going. Which of the following is the most LIKELY cause? | |
|  | |
| |  | **Student Response** | **Value** | | --- | --- | --- | | A. | humans |  | | B. | sea-level rise |  | | C. | unknown viruses and other dieseases |  | | Student Response D. | global warming | 0% | | E. | less continental fragmentation |  | | |
| 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** | | --- | --- | --- | | Student Response A. | **from the vaporization of limestone** | 100% | | B. | from vaporization of evaporite deposits |  | | C. | from burning dinosaurs |  | | D. | from combining gases in the atmosphere after the initial blast |  | | E. | from the vaporized extra-terrestrial object itself |  | | |
| Score: | 1/1 |
|  | |

**3.**

|  |  |
| --- | --- |
| Which of the following best describes a comet’s composition? | |
|  | |
| |  | **Student Response** | **Value** | | --- | --- | --- | | A. | evaporites |  | | B. | calcium carbonate |  | | C. | volcanic rock |  | | Student Response D. | sedimentary rock | 0% | | E. | ice and rocky material |  | | |
| Score: | 0/1 |
|  | |

**4.**

|  |  |
| --- | --- |
| Which of the following phrases will make this statement TRUE? "Biostratigraphy can be used to correlate rocks from the Precambrian to the present because \_\_\_\_\_\_." | |
|  | |
| |  | **Student Response** | **Value** | | --- | --- | --- | | A. | evaporite deposits mark times when whole oceans have evaporated |  | | B. | of the presence of dinosaurs in the Mesozoic |  | | Student Response C. | **the biosphere and individual species have evolved through time** | 100% | | D. | all species have extremely long ranges through geological time |  | | E. | different types of sediments are deposited in different places on the surface of the Earth |  | | |
| Score: | 1/1 |
|  | |

**5.**

|  |  |
| --- | --- |
| Pangaea was a supercontinent that \_\_\_\_\_\_. | |
|  | |
| |  | **Student Response** | **Value** | | --- | --- | --- | | A. | existed during the Ordovician |  | | B. | formed during the Jurassic |  | | Student Response C. | had undergone complete fragmentation by the late Permian | 0% | | D. | existed during the Precambrian |  | | E. | fragmented throughout most of the Mesozoic |  | | |
| Score: | 0/1 |
|  | |

**1.**

|  |  |
| --- | --- |
| Which of the following likely contributed to the significant increase in greenhouse gases in the atmosphere in the Late Cretaceous? | |
|  | |
| |  | **Student Response** | **Value** | | --- | --- | --- | | A. | chemical reactions which destroyed the ozone layer |  | | Student Response B. | vaporization of basalt rock | 0% | | C. | formation of limestone CaCO3 in the oceans |  | | D. | global-scale fires |  | | E. | emission of volcanic gases |  | | |
| Score: | 0/1 |
|  | |

**2.**

|  |  |
| --- | --- |
| What happened at Tunguska? | |
|  | |
| |  | **Student Response** | **Value** | | --- | --- | --- | | A. | An extraterrestrial object produced an airburst that levelled millions of trees. |  | | B. | A comet impacted here and produced a crater about the size of Washington, DC. |  | | C. | A series of closely spaced impacts from space occurred here. |  | | Student Response D. | This is where mammals started to out-compete dinosaurs, signalling the fall of dinosaurs. | 0% | | E. | It is ground zero for the onset of an extensive glacial period. |  | | |
| Score: | 0/1 |
|  | |

**3.**

|  |  |
| --- | --- |
| All of the following are direct or indirect effects of the production of flood basalts. Which would LEAST likely generate a mass extinction event? | |
|  | |
| |  | **Student Response** | **Value** | | --- | --- | --- | | Student Response A. | acid rain | 0% | | B. | greenhouse gases |  | | C. | ozone depletion |  | | D. | atmospheric cooling effects |  | | E. | lava fields and pools |  | | |
| Score: | 0/1 |
|  | |

**4.**

|  |  |
| --- | --- |
| How rapid was the Permo-Triassic extinction thought to be? | |
|  | |
| |  | **Student Response** | **Value** | | --- | --- | --- | | A. | less than 1 million years |  | | B. | around 2 million years |  | | C. | around 3 million years |  | | D. | between 5 – 10 million years |  | | Student Response E. | between 1.5 – 2.5 million years | 0% | | |
| Score: | 0/1 |
|  | |

**5.**

|  |  |
| --- | --- |
| Concerning the Cretaceous-Tertiary extinction, which the following was a probable contributory factor? | |
|  | |
| |  | **Student Response** | **Value** | | --- | --- | --- | | A. | volcanism in India |  | | Student Response B. | glaciation | 0% | | C. | volcanism in Siberia |  | | D. | formation of the supercontinent Pangea |  | | E. | impact in Tunguska |  | | |
| Score: | 0/1 |
|  | |