PQ1 Earthquakes

|  |  |
| --- | --- |
| **1.** |  |
|  | |  |  | | --- | --- | | Compared to small earthquakes, seismic waves from large earthquakes \_\_\_\_\_\_. | | |  | | | |  | **Student Response** | **Value** | **Correct Answer** | | --- | --- | --- | --- | | A. | contain higher frequencies |  |  | | B. | are of similar amplitude |  |  | | tudent ResponseC. | contain lower frequencies | 100% | tudent Response | | D. | travel more quickly |  |  | | E. | more efficiently trigger tsunami |  |  | | | | Score: | 1/1 | |  | | |
| **2.** |  |
|  | |  |  | | --- | --- | | Which of the following lists tectonic plate-boundary types in order of expected earthquake magnitude (strongest to weakest)? | | |  | | | |  | **Student Response** | **Value** | **Correct Answer** | | --- | --- | --- | --- | | A. | convergent, slide-past, divergent |  | tudent Response | | B. | divergent, convergent, slide-past |  |  | | C. | slide-past, divergent, convergent |  |  | | tudent ResponseD. | convergent, divergent, slide-past | 0% |  | | E. | all are equally likely to have strong, weak and intermediate earthquakes |  |  | | | | Score: | 0/1 | |  | | |
| **3.** |  |
|  | |  |  | | --- | --- | | Which scenario describes a "soft storey" building collapse? | | |  | | | |  | **Student Response** | **Value** | **Correct Answer** | | --- | --- | --- | --- | | A. | a 100-year-old 3-story wooden structure collapses completely |  |  | | B. | two adjacent buildings shake at different frequencies, causing damage in the area where they collide |  |  | | C. | a building is shaken off its first-floor posts, obliterating everything in that first floor space |  | tudent Response | | D. | brickwork on the face of a building is shaken off into the street |  |  | | tudent ResponseE. | a building topples over because one side of its foundations sinks into ground softened by liquefaction | 0% |  | | | | Score: | 0/1 | |  | | |
| **4.** |  |
|  | |  |  | | --- | --- | | What kind of deformation is most frequently and easily visible in rocks? | | |  | | | |  | **Student Response** | **Value** | **Correct Answer** | | --- | --- | --- | --- | | tudent ResponseA. | brittle | 0% |  | | B. | normal |  |  | | C. | plastic |  | tudent Response | | D. | fluid |  |  | | E. | elastic |  |  | | | | Score: | 0/1 | |  | | |
| **5.** |  |
|  | |  |  | | --- | --- | | Both the Richter and Moment Magnitude scales are used to quantify \_\_\_\_\_\_. | | |  | | | |  | **Student Response** | **Value** | **Correct Answer** | | --- | --- | --- | --- | | A. | the intensity of ground motion felt as earthquake energy passes a particular location |  |  | | B. | the difference in travel time between P- and S-waves |  |  | | C. | amount of damage to manmade structures |  |  | | D. | the extent of disaster (cost in lives and dollars) caused by an earthquake |  |  | | tudent ResponseE. | energy released at the hypocenter of an earthquake | 100% | tudent Response | | | | Score: | 1/1 | |  | | |