

I. **Written question.** (must be answered (in 2-3 sentences) for the paper to be graded). A. Although wind is a more active agent of erosion in a dry area than it is elsewhere, running water (in its limited appearance in deserts) is the most active agent of erosion in deserts. Why? [0.8]

B. Late last winter, an earthquake near Seattle WA had a source that was more than 30 miles underground. The word used to describe that underground source is _____ [0.3]

II. **Short answers.** Place the answer (a single capital letter from those found in each question) on the line at left. Do not circle answers. Where there is a list (matching-type questions) that any answer may be used more than once, or not at all. [0.6/question]

- ____ 1. Were all of these caused by glacial periods (ice ages); or if not, which one was not?
- A. changes in coastal shorelines D. formation of caves & mineral veins
 B. changes in stream paths H. changes in sea level J. all were caused by the ice ages
 C. migration of animals & plants N. none were caused by the ice ages
- ____ 2. Are all of these possible reasons the ice ages happened? or if not, which one is not?
- A. changes in shape of axis C. changes in angle of axis H. wobble of axis
 B. changes in shape of its orbit D. tectonic wandering of plates K. all are possible reasons
- ____ 3. Which of these is always true of deserts? A. lifeless B. warm C. cold D. dry K. all of them
- ____ 4. Which of these is often used to define a desert?
- A. rainfall less than 1"/year C. more evaporation than precipitation H. A & C
 B. rainfall less than 10"/year D. more precipitation than evaporation J. B or C N. none of these

Match these descriptions with a word below

- ____ 5. the coarse surface found in desert areas that have undergone a large amount of wind erosion
- ____ 6. thin layer of wind-blown sediment
- A. desert pavement B. blowout C. loess D. dunes N. none of these

Match these items with a choice from the list at right.

- ____ 7. caused by an earthquake whose epicenter is in ocean floor
- ____ 8. a wave which is 1.7 times faster than an S wave
- ____ 9. kind of earthquake wave that doesn't travel through fluids
- ____ 10. instrument used to measure earthquake waves
- ____ 11. the surface origin of an earthquake
- A. focus J. seismograph
 B. tsunami K. epicenter
 C. Richter scale P. P-wave
 D. Mercalli scale S. S-wave
 H. sesimology N. none of these

____ 12. Which item or items below **are** part of the evidence that the continents have moved.

- A. evidence of past glaciers found in warm latitudes
 B. recently discovered old emails from Pangaea
 C. fossils of unrelated plants and animals found on widely separated continents
 D. matching continental margins
 H. unmatched rock layers on two widely separated continents
 J. both A & C K. both A & D L. both A & H Q. both C & D
 N. none of these are part of the evidence that the continents have moved

____ 13. Which word(s) in this list does or do not belong with the others?

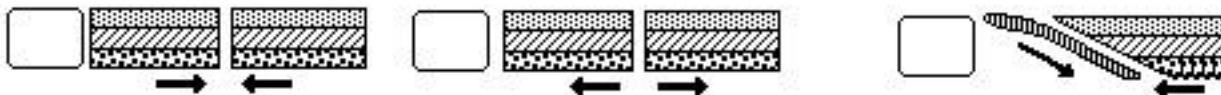
- A. Pangaea B. continental drift C. ancient climates D. Wegemer H. all belong N. none belong

____ 14. According to the "plate tectonics" theory, the earth's crust consists of 'plates'. How many are considered "major" plates? A. 3 B. 5 C. 7 D. 10 N. none of these

____ 15. Which of these is not a type of plate boundary? C= continental O= oceanic D= divergent

A. OC B. CC C. OO D. divergent H. transform K. all are N. none is

Extra credit: Label (in the box) the pictures of the boundaries below as: D, OC, CC or OO [0.3/each]



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