Vasquez High School -- Earth Science B -- Test #3 -- Chapter 19 -- 55 points

Write TRUE if the statement is true OR write the word(s) that substitutes for the underlined word(s) that would make it true. Writing false only earns partial credit. Three points each.

_____ 1) Wind farms can use the power of the wind to make electricity.

_____ 2) The hollow spot in the middle of a massive storm is called the tornado.

_____ 3) The trade winds blow at about 45° north and south latitudes.

_____ 4) Normal atmospheric pressure at an altitude of 3 miles (or 5 kilometers) is about 30 pounds per square inch.

_____ 5) In order to sail eastward against a steady wind, the European sailors learned a technique called tacking.

Short Answer/Fill-in. Be neat and complete. Three points each.

6) The _____ Effect is the tendency of an object moving freely over the Earth's surface to curve away from its path of travel. Its effect is greatest where? _____

7) In terms of the formula for pressure, why is it we want our knives as sharp as possible? _____

_____

_____.

8) The _____ is a high altitude wind that makes travel from the _____ coast to the _____ coast faster.

9) What causes the wind? _____

_____.

10) Which is heavier, wet air or dry air? Why? _____

_____.

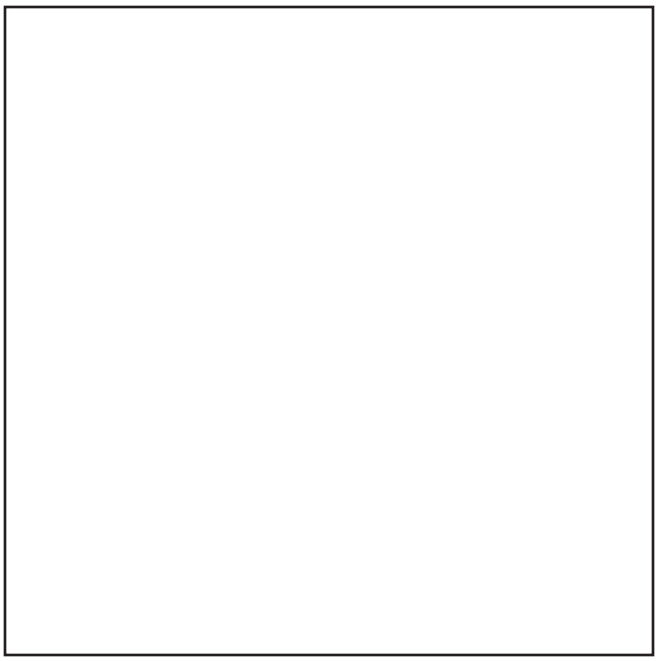
11) Winds that do not change direction are said to be _____ winds, and winds that change directions with the seasons are called _____ winds.

12) The Horse Latitudes are at about what latitude? _____ Why are they called Horse Latitudes?

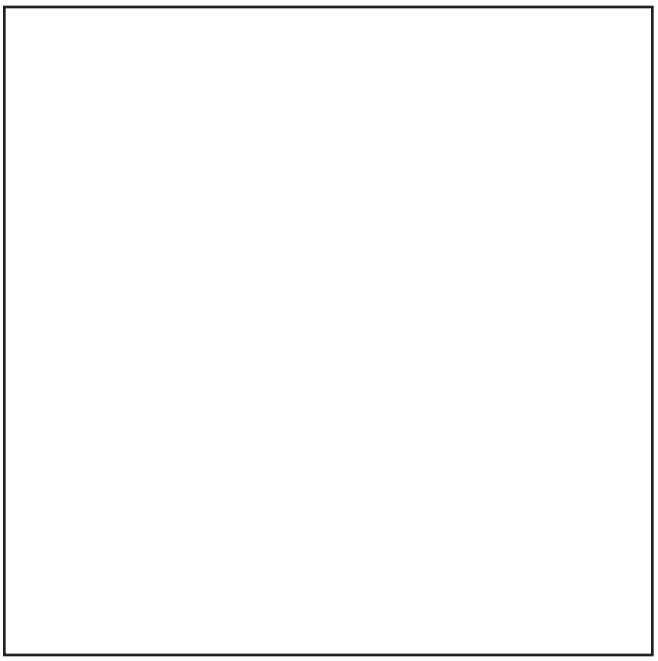
_____

_____.

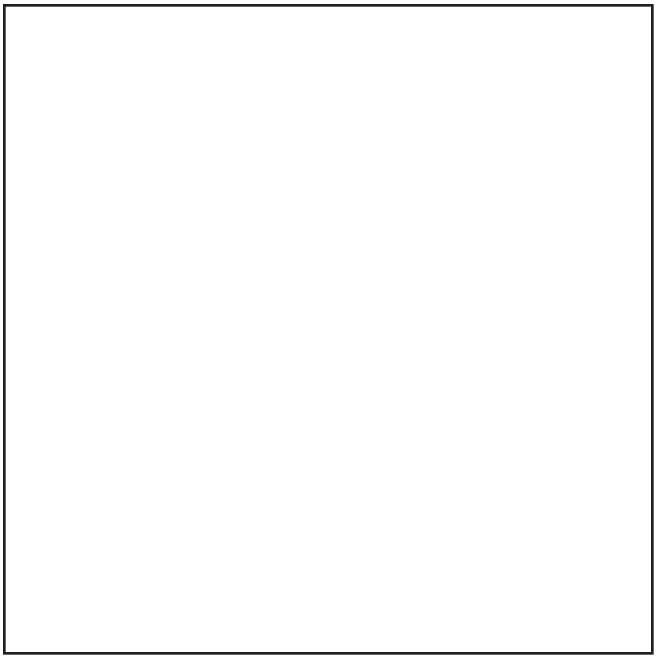
13) For five points, draw the Earth with a three-cell wind circulation model. Mark approximate degrees on your drawing. Five points.



14) Draw a picture of a mercury (Hg) barometer in operation. Label <u>everything</u>. Five points.



15) Draw summer beach conditions for both day and night at the right. Label and show wind patterns for each. Describe what is happening below. Five points.



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16) For one point each, name four reasons why simple models like the three-cell model above is inadequate to really describe what is happening with the winds around the Earth.

_____ _____

_____ _____