**University of Phoenix Material**

**Week Three Quiz**

Complete the following quiz. Choose your response by highlighting your answer.

1. When we perform an experiment, we
   a. measure independent variables,
   b. produce dependent variables.
   c. produce control variables.
   d. produce a comparison.
   e. **hold independent variables constant.**

2. The control group in an experiment
   a. fixes the level of a variable across all experimental conditions.
   b. is often untreated.
   c. receives the same level of the independent variable as the experimental group.
   d. refers to the manipulation of the independent variable.

3. In research on the decompression of pregnant rats, the independent variable is ______, a dependent variable is ________, and a control variable is _______________.
   a. Reduced air pressure; behavioral tests; strain of the rat
   b. Body weight; climbing ability; time of day
   c. Atmospheric pressure; age of rat; climbing ability
   d. Number of decompressions; body weight; home cage
   e. Experimental group; control group; test performance

4. In experiments, independent variables are
   a. the result of careful measurements.
   b. **extraneous to the experiment and held constant.**
   c. extraneous to the experiment and allowed to vary randomly.
   d. independent of experimenter control.
   e. varied by the researcher.

5. Dependent variables are
   a. manipulated by the researcher.
   b. potential independent variables that are held constant.
   c. measured by the researcher.
   d. **probable behavioral causes.**

6. One reason a valid experiment may produce null results is
   a. the range of levels in the independent variable was insufficient to show an effect.
   b. the dependent variable reflects a broad range of performance.
   c. that the experiment is conducted in an environment that is too difficult.
   d. that reactivity occurs in the participants (e.g., they adopt the role of "good behavior").