

Physical Science Comprehensive Final Exam Study Guide

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- ____ 1. The process of learning more about the natural world is _____.
 - a. an experiment
 - b. a control
 - c. a hypothesis
 - d. science
- ____ 2. Experiments and investigations must be _____.
 - a. approved
 - b. unreproducible
 - c. repeatable
 - d. accepted
- ____ 3. A prediction about a problem that can be tested is a(n) _____.
 - a. hypothesis
 - b. independent variable
 - c. dependent variable
 - d. control
- ____ 4. A variable in an experiment that stays the same is a(n) _____.
 - a. independent variable
 - b. dependent variable
 - c. constant
 - d. control
- ____ 5. Science cannot answer questions about _____.
 - a. distance
 - b. temperature
 - c. politics
 - d. the natural world
- ____ 6. Models can be used to describe which of the following environments?
 - a. the floor of the ocean
 - b. volcanoes
 - c. space
 - d. all of the above
- ____ 7. Scientific _____ must be supported by observations and results from many investigations and are not absolute.
 - a. constants
 - b. theories
 - c. systems
 - d. laws
- ____ 8. Another term for technology is _____.
 - a. applied science
 - b. controlled experiment
 - c. comparison
 - d. sequence
- ____ 9. When designing an experiment, the first step is to _____.
 - a. draw conclusions
 - b. form a hypothesis
 - c. recognize a problem
 - d. test a hypothesis
- ____ 10. When conducting an experiment, the last step is to _____.
 - a. analyze the data
 - b. draw conclusions
 - c. form a hypothesis
 - d. recognize a problem
- ____ 11. To evaluate the observations you make, you must use _____.
 - a. a hypothesis
 - b. critical thinking
 - c. measurements
 - d. models
- ____ 12. Scientists must be impartial and not base their conclusions on _____.
 - a. opinions
 - b. evidence
 - c. models
 - d. experiments
- ____ 13. To _____ means to draw a conclusion based on something you observe.
 - a. guess
 - b. control
 - c. model
 - d. infer
- ____ 14. In which of the following situations would it NOT be wise to estimate?
 - a. the number of miles per gallon an automobile can provide
 - b. the time it would take to walk to the grocery store from home

Physical Science 43study Guide

Marco Cascella



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web jun 5 2022 upon application of input voltage the time delay t1 begins at the end of the time delay t1 the output is energized and remains in that condition for the time delay t2 at the end of this time delay t2 the output is de energized input voltage must be removed to reset the time delay relay

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web in a ladder diagram the two poles of the power source are drawn as vertical rails of a ladder with horizontal rungs showing the switch contacts relay contacts relay coils and final control elements lamps solenoid coils motors drawn in between the power rails ladder diagram symbols

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web also called normally closed off delay relays one shot timers provide a single contact pulse of specified duration for each coil energization transition from coil off to coil on recycle timers provide a repeating sequence of on off contact pulses as long as the coil is maintained in an energized state

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output relay this would be done in 12v and the sequence will be initiated by a manual switch

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web this type of positive feedback is also called hysteresis and provides a fast transition from the on to off state once turning off starts the off delay timing is mostly a function of c1 and r6 the exact delay is a bit hard to predict because it depends on the gain of the transistors particularly of q1

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