Physical Science Comprehensive Final Exam Study Guide

Multiple Choice

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

| 1.0 | The process of learning more about the natural world is | | | |
|--|--|------------------|---------------------|--|
| | a. an experiment | C. | a hypothesis | |
| | b. a control | dl. | science | |
| 2.7 | Experiments and investigations must be | | | |
| | a. approved | C. | repeatable | |
| | b. unreproduceable | dL. | accepted | |
| 3.7 | A prediction about a problem that can be tested | is a | n(n) | |
| | a. hypothesis | C. | dependent variable | |
| | b. independent variable | d. | control | |
| 44.5 | A variable in an experiment that stays the same is a(n) | | | |
| | a. independent variable | C. | constant | |
| | b. dependent variable | d. | control | |
| 5 | Science cannot answer questions about | | | |
| | a. distance | C. | politics | |
| | b. temperature | d. | the natural world | |
| 6 | Models can be used to describe which of the following environments? | | | |
| | a. the floor of the ocean | | space | |
| | b. volcanoes | dL. | all of the above | |
| 7. | Scientific must be supported by observations and results from many investigations and are not absolute | | | |
| | a. constants | C. | systems | |
| | b. theories | dl. | laws | |
| 8. | Another term for technology is | | | |
| | a. applied science | \mathbf{C}_{m} | comparison | |
| | b. controlled experiment | d. | sequence | |
| When designing an experiment, the first step is to | | | | |
| | a. draw conclusions | C. | recognize a problem | |
| | b. form a hypothesis | d. | test a hypothesis | |
| 10. | | | | |
| | a. analyze the data | C. | form a hypothesis | |
| | b. draw conclusions | d. | recognize a problem | |
| 11. | To evaluate the observations you make, you must use | | | |
| | a. a hypothesis | | measurements | |
| | b. critical thinking | dL. | models | |
| 12. | | | | |
| | a. opinions | | models | |
| | b. evidence | | experiments | |
| 13. | | | | |
| | a. guess | | model | |
| | b. control | - | infer | |
| 14. | In which of the following situations would it NOT be wise to estimate? | | | |
| | a. the number of miles per gallon an automob | | | |
| | b. the time it would take to walk to the grocer | y 54 | ore from home | |

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