

NSCI 204-50 Environmental Science

Mid Term Study Guide

MULTIPLE CHOICE QUESTIONS

1. Which of the following is NOT part of environmental science?
 - a. Natural sciences
 - b. Humanities
 - c. Social sciences
 - d. All of these are part of environmental science
2. Which of the following describes the approach of empirical science?
 - a. Investigates by observation only
 - b. Measures models, not the real world
 - c. Investigates by experiment and observation
 - d. Investigates by experiment only
3. What could the Greenland Vikings have learned from their local Inuit neighbors that may have saved their civilization from self-destruction?
 - a. Cattle ranching practices to increase beef production
 - b. Medicinal strategies to reduce infant mortality
 - c. Religious practices and Inuit ideologies
 - d. Limitations of the local environment and potential sustainable choices
4. Which of the following describes sustainable development?
 - a. Meets present-day needs without harming future ability to do so
 - b. Meets present-day needs without concern for future ability to do so
 - c. Meets future needs without concern for present-day effects
 - d. The gradual increase in sustainability over time
5. When people are using a common resource such as water, some will act in a way to maximize it to their own benefit ("if I don't use it, someone else will"), and the resource becomes overused or damaged. This is known as:
 - a. anthropocentric factor.
 - b. social traps.
 - c. tragedy of the commons.
 - d. regulation.
6. Which of the following questions is NOT scientifically testable?
 - a. Why do bats get white-nose syndrome (WNS)?
 - b. Why do humans need to protect bats from WNS?
 - c. How have mosquito populations changed since WNS began impacting bats?
 - d. What changed genetically to cause the fungus linked to WNS to become dangerous?
7. If a hypothesis is supported through the study and data, what happens next?
 - a. The hypothesis is rejected and a new one is developed.
 - b. The hypothesis becomes a theory.
 - c. An alternative hypothesis is tested.
 - d. Researchers repeat the study and make new predictions.

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Ying-Ying Zheng



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web oct 3 2022 just as many physical phenomena can be modeled by exponential functions the same is true of logarithmic functions in exercises 75 76 and 77 of section 6.1 we showed that logarithms are useful in measuring the intensities of earthquakes the richter scale sound decibels and acids and bases ph

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web may 2 2023 since the equation of a logarithm is equivalent to an exponential equation the logarithm can be converted to the exponential equation $b^y = x$ and then properties of exponents can be applied to solve for x

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web use logarithms to solve exponential equations use the definition of a logarithm to solve logarithmic equations use the

one to one property of logarithms to solve logarithmic equations solve applied problems involving exponential and logarithmic equations figure 1 wild rabbits in australia

4 7 exponential and logarithmic equations mathematics - Jun 02 2023

web may 25 2021 using like bases to solve exponential equations the first technique involves two functions with like bases recall that the one to one property of exponential functions tells us that for any real numbers b $b \neq 1$ and t $t \neq 0$ where $b > 0$ $b \neq 1$ $b^s = b^t$ if and only if $s = t$

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web an exponential equation is an equation in which the variable appears in an exponent a logarithmic equation is an equation that involves the logarithm of an expression containing a variable to solve exponential equations first see whether you can write both sides of the equation as powers of the same number