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Cladogram Example Problems And Answers

CLADOGRAM practice problems - Ms. Salzburg

CLADOGRAM PRACTICE Name: ____ Per: ____ 1 Based on the cladogram shown, we can conclude that species 2 is most closely related to species A 1 B 3 C 4 D 5 E 1 or 3 2 The cladogram shows the evolution of land plants as indicated by fossil records CLADOGRAM practice problems

Cladogram Practice - Denver Public Schools

Cladogram Practice Textbook Questions According to the cladogram, which character evolved first: keratinized skin or bipedalism? (circle one) 8 On the cladogram, circle the point (ie node) that represents the most recent common ancestor of crocodiles, dinosaurs and birds

CLADOGRAM PRACTICE PROBLEMS AND ANSWERS PDF

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Practice Problems - ISD 622

Practice Problems 1 What trait separates Lampreys from tuna on this cladogram? ____ 2 What separates a salamander from a turtle? ____ Directions: Use the cladogram below to answer the questions on the backside of this worksheet I can read and analyze cladograms

Constructing a Cladogram, Practice Exercise with Insects ...

Constructing a Cladogram, Practice Exercise with Insects Taxa Characters Millipede Body Louse Beetle Assassin Bug Bee Ant Wings 0 0 1 1 1 1 3 body regions 0 1 1 1 1 1 Social 0 0 0 0 1 1 Complete Metamorphosis 0 0 1 0 1 1 Mobile Head 0 0 0 0 1 1 Flattened Body 0 1 0 0 0 0 Draw the Cladogram ...

MAKING CLADOGRAMS: Background and Procedures ...

homologous structures (for example, the front legs of a horse, wings of a bird, flippers of a whale, and the arms of a person are all homologous to each other) structures are shown on the cladogram by solid square boxes along the branches, and common ancestors are shown by open circles The more derived structures two organisms share, the

Cladistics (reading and making of cladograms)

Cladistics (reading and making of cladograms) Cladogram - a diagram that depicts the relative levels of relatedness relationships among groups Problems arise in the fossil record when we find animals with some but not all of the characters that define a group For example what if we find a fossil of an animal that has feathers and hollow

How to Make a Cladogram

The student will learn how a cladogram illustrates an evolutionary hypothesis and makes predictions about evolutionary events (ie the scientific method) 4 The student will learn how cladograms depict relationships between taxa, and represent a "family tree" of life 5 The student will learn how to construct a cladogram from

Cladistics

Cladogram of Vertebrates clade of mammals AP Biology The splits in branches: Nodes 1 lineage 2 lineages How to read a phylogenetic tree The root: the common ancestor for the group Positions of nodes on time scale (if present) indicate times of corresponding speciation events

AP Biology Phylogeny Review Worksheet Tree 1

B Draw a cladogram showing the relationship of these beetles Make sure it is the simplest tree, invoking the fewest possible character state changes 14 Using the cladogram below, the relative lengths of the frog and mouse branches in the phylogenetic tree indicate that a Frogs evolved before mice b Mice evolved before frogs c

Cladogram Basics - PBS

The example that follows represents a cladogram To make a cladogram, scientists first collect data on the features of all the organisms they hope to classify This data is then analyzed to determine which character-istics were present in what could have been a common ancestor and which might have been developed in later times

Hardy-Weinberg Equilibrium Problems

Hardy-Weinberg Equilibrium Problems 1 The frequency of two alleles in a gene pool is 019 (A) and 081(a) Assume that the population is in Hardy-Weinberg equilibrium (a) Calculate the percentage of heterozygous individuals in the population According to the Hardy-Weinberg Equilibrium equation, heterozygotes are represented by the $2pq$ term

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Sample Test Questions - west.nesinc.com

SAMPLE TEST QUESTIONS The sample test questions in this document are designed to give you an introduction to the nature of the questions included in the Washington Educator Skills Tests—Endorsements (WEST-E) They represent the various types of questions you may expect to see on an actual test in this test

Evolution, Diversity & Phylogeny Practice Problems

Evolution, Diversity & Phylogeny Practice Problems 1 Will an extremely rare, beneficial allele have a better chance of fixing in a very large population, or in a very small population? Explain your answer Explain a mutualistic interaction, and give an example of one in which fungi participate 15 Please use the graph to answer the

Essential knowledge 1.B.2: Phylogenetic trees and ...

relatedness is described by a phylogenetic tree or cladogram in order to (1) identify shared characteristics, (2) make inferences about the evolutionary history of the group, and (3) identify Example of Cladogram My Cladogram: 6 5 State/discuss at least three types of information which can be obtained from a cladogram

Evolving Trees (CIBT)

Answers will vary...but all should indicate that as new evidence becomes available the trees could change 5 With the most parsimonious cladogram that the students can build, a hierarchical taxonomy can be made Below is an example of some fun names the students can invent Bugeyedeia Stingeralia Wingsophila Flysophila Stinger Wing Vein E B D

LABORATORY EXERCISE 6: CLADISTICS I lungfish frog ...

A cladogram is a branching, tree-like diagram that presents a hypothesis of common In the short example I've given, a discussion of the cladogram, stating your conclusions, any problems you had, ways the cladograms could be tested further, and so on; 3) a discussion of what the first part of the exercise implies about the assumptions

BIOLOGY EOC STUDY GUIDE with Practice Questions

BIOLOGY EOC STUDY GUIDE with Practice Questions 2 The Biology EOC • The Biology 1 EOC assessment is delivered via computer-based test • The assessment is given in one 160 session with a 10 minute break after the first 80 minutes Any student not finished by the end of the 160 minutes may continue working but,

Reading Phylogenetic Trees - Shodor

Dendrogram, cladogram, phylogram •Dendrogram is the 'generic' term applied to any type of diagrammatic representation of phylogenetic trees All four trees depicted here are dendrograms •Cladogram (to some biologists) is a tree in which branch lengths DO NOT represent