

# Study Guide

## Answer Key

### SECTION 1. THE LINNAEAN SYSTEM OF CLASSIFICATION

- organisms or species
- physical similarities
- taxa
- organisms or species
- binomial nomenclature
- a scientific name or two-part Latin name
- In a hierarchy, each level is nested, or included, in the level above it.
- From kingdom to species, the taxa become more and more specific, broad to specific. Seven taxa: a. kingdom; b. phylum; c. class; d. order; e. family; f. genus; g. species
- The technology at the time did not allow Linnaeus to examine organisms at the molecular or genetic level.
- Unrelated species can evolve similar traits through convergent evolution.
- These types of similarities are more likely the result of species sharing a common ancestor than are physical similarities.
- naming, classifying
- Latin
- genus, species

### SECTION 2. CLASSIFICATION BASED ON EVOLUTIONARY RELATIONSHIPS

- the evolutionary history for a group of species
- in a branching-tree diagram, such as a cladogram
- to place species on a branching-tree diagram in the order in which they descended from a common ancestor
- taxon being classified
- clade
- node
- derived characters
- a group of organisms that shares a common ancestor
- Scientists must determine which derived characters are shared by which groups of organisms; the more derived characters a

group of organisms has, the later it descended from the common ancestor.

- A node is a place where a branch splits. It represents the most common ancestor shared by a clade.
- DNA sequences/genes, amino acid sequences/proteins, hormones, etc.
- As more research is done and the evolutionary histories of different species become better understood, evolutionary trees are rearranged to reflect the most current scientific understanding.
- The species are very closely related; they share a relatively recent common ancestor.
- A phylogeny shows the origins for a group, or "class," of species.
- Cladistics is classification based on evolutionary relationships and a cladogram shows these relationships in a branching-tree diagram.
- derived

### SECTION 4. DOMAINS AND KINGDOMS

- Since it reflects the most current understanding of how living things are related, new discoveries can change the way living things are classified.
- Three hundred years ago, only two kingdoms were recognized. Now, a six-kingdom system is most widely accepted.
- His research revealed two genetically different groups of prokaryotes, which justified splitting kingdom Monera into two kingdoms. The genetic and cellular differences were so great, that these two kingdoms were eventually placed into different domains in the current three-domain system.

#### Timeline:

1735: Linnaeus introduced his two-kingdom system which included Plantae and Animalia; 1866: Kingdom Protista introduced by Haeckel; 1938: Kingdom Monera introduced by Copeland; 1959:

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**Padhraic Smyth**

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isotopes are atoms that have the same number of protons but different numbers of neutrons thus atoms of 6 12 c and of 6 13

c are isotopes of each other

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pageindex 5 isotopes of an element are atoms with the same atomic number but different mass numbers isotopes of an element therefore differ from each other only in the number of neutrons within the nucleus

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web jan 11 2013 isotopes of an element share the same number of protons but have different numbers of neutrons let s use carbon as an example there are three isotopes of carbon found in nature carbon 12

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web video answer so now we ll talk about problems 58 from chapter four this problem whereas how do isotopes differ and how are they similar isotopes for the same element so isotopes differ in the number of neutro

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web the isotopes of a given element always contain the same number of protons and therefore occupy the same place on the periodic table however because isotopes contain different numbers of neutrons each isotope has a unique atomic mass

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web atoms of the same element i e same atomic number z that have different numbers of neutrons are called isotopes for example 99 of the carbon atoms on earth have 6 neutrons and 6 protons in their nuclei about 1 of the carbon atoms have 7

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web aug 19 2022 atoms with the same number of protons but different numbers of neutrons are called isotopes they share almost the same chemical properties but differ in mass and therefore in physical properties there are stable isotopes which do not emit radiation and there are unstable isotopes which do emit radiation

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for example carbon 14 has 8 neutrons differing from carbon 12 which has 6

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web atoms of the same element that differ in their numbers of neutrons are called isotopes many isotopes occur naturally usually one or two isotopes of an element are the most stable and common different isotopes of an element generally have the same physical and chemical properties because they have the same numbers of protons and electrons

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web jan 5 2016 explanation isotopes are atoms of the same element same atomic number ie same number of protons in the nucleus but different atomic masses different mass numbers due to different numbers of neutrons in the nucleus for example we may get an isotope of chlorine with 17 protons and 18 neutrons hence atomic mass 35

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web jul 18 2018 answer link due to the number of neutrons isotopes differ with respect to the number of neutrons their nuclei contain where neutrons are massive particles of zero charge a nucleus may contain variable numbers of neutrons and this gives rise to the phenomenon of isotopes

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web verified by topr correct option is d atoms having same atomic number but different atomic mass are known as isotopes

the difference in the mass is due to the difference in their number of neutrons with the same number of electrons and protons

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web part i answer the questions based on the above reading what is an isotope isotopes are versions of the same element they have the same number of protons and electrons as the element but different mass numbers and number of neutrons what does the number next to isotopes signify the number indicates the isotope's mass number

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