

Section 15-1

VOCABULARY REVIEW

1. Evolution is the development of new types of organisms from preexisting types of organisms over time.
2. Natural selection is a process in which organisms best suited to their environment reproduce more successfully than other organisms.

MULTIPLE CHOICE

1. d 2. c 3. a 4. d 5. c

SHORT ANSWER

1. Since acquired traits are not genetically determined, they cannot be passed on to offspring. Therefore, they cannot cause a population to change over generations.
2. Darwin extended Malthus' ideas to populations of all organisms and reasoned that the environment limits the populations of all organisms by causing deaths or limiting births.
3. Evolution is the change of populations of organisms over time; natural selection is the mechanism by which evolution occurs.
4. Lamarck would have said that the ancestors of modern-day giraffes had short necks but stretched their necks as they tried to reach leaves in trees; so, their descendants were born with longer necks. Darwin would have said that in a population of ancestral giraffes, some had slightly longer necks than others; the long-necked giraffes were better able to feed on tree leaves and as a result produced more offspring. Over time, the proportion of long-necked giraffes in the population increased.

STRUCTURES AND FUNCTIONS

The bird in B appears to have greater fitness, since it has produced more offspring.

Section 15-2

VOCABULARY REVIEW

1. A homologous structure is an anatomical structure that occurs in different species and originated by heredity from a structure in a common ancestor; analogous structures have closely related functions but are not derived from the same ancestral structure.
2. A fossil is the evidence or remains of a preexisting organism; the principle of superposition states that if a sequence of sedimentary rock strata have been undisturbed, the oldest strata will be at the bottom of the sequence and younger strata will be on top. The relative age of the strata is usually determined by comparing the fossils contained in the strata.
3. The relative age of a fossil or rock is simply an indication of whether the fossil or rock is younger or older than another fossil or rock; the absolute age of a rock is the rock's age in years.

MULTIPLE CHOICE

1. b 2. c 3. b 4. a 5. a

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