

Examples Of Evolution (p. 288 – 292)

I. Natural Selection At Work

1. The basic mechanisms of evolutionary change cannot be observed in nature?

Circle One : True False

2. What is the main factor that dictates the direction of evolution?

3. What will humans evolve into in the future? (*Read question 2 again.*)

4. List the four factors that govern natural selection.

1. _____

2. _____

3. _____

4. _____

5. How is the infectious disease, tuberculosis, an example of natural selection occurring?

6. What was the difference of the 9 bird species observed by Darwin on the Galapagos?

7. What did Darwin suggest was the cause of these differences?

II. Formation Of New Species

1. Define the term speciation.

Speciation –

2. How does divergence lead to speciation?

3. What can happen to a species if it is isolated and exposed to selective pressures for a long period of time?

III. Reproductive Isolation Mechanisms (Not in the book.)

1. Define each of the following isolation mechanisms and give an example of each mechanism occurring in nature.

1. Geographic Isolation –

Example : _____

2. Behavioral Isolation –

Example : _____

3. Temporal Isolation –

Example : _____

4. Ecological Isolation –

Example : _____

5. Mechanical Isolation –

Example : _____

6. Post-zygotic Mechanisms –

Example : _____