**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?**

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

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**4. List the four factors that govern natural selection.**

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3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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

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

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**II. Formation Of New Species**

**1. Define the term speciation.**

Speciation –

**2. How does divergence lead to speciation?**

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**3. What can happen to a species if it is isolated and exposed to selective pressures for a**

**long period of time?**

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**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 : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_