**Evidence Of Evolution** (p. 283 – 287)

**I. The Fossil Record**

 **1. Define the term fossil.**

 Fossil –

 **2. Circle the letter of the sentence that is incorrect concerning fossils.**

 a. Fossils of animals show a pattern of development from ancestors to descendants.

 b. The fossil record offers no evidence that evolution takes place.

 c. Change over time can be seen in the fossil record.

 d. The fossil record is incomplete.

 **3. The Earth is about 4.5 million years old.**

 Circle One : True False

 **4. What is the best environment to search to find fossils?**

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 **5. Which type of organism has a better chance of fossilizing?**

 Circle One : Soft-bodied Hard-bodied

 **6. Define the term paleontologist.**

 Paleontologist –

 **7. How do paleontologists develop an orderly picture of an organism’s evolution?**

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**II. Anatomy & Development**

 **1. Define the term homologous structures.**

 Homologous Structures –

 **2. List three examples of homologous structures in mammals.**

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **3. Define the term vestigial structures.**

 Vestigial Structures –

 **4. List three examples of vestigial structures in animals.**

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **5. How is embryology used as form of evidence supporting evolution?**

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**III. Biological Molecules**

 **1. Which type of ancestor exhibits greater amino acid sequence differences?**

 Circle One : More Recent More Distant

 **2. Are protein patterns always a reliable measure of evolutionary trends?**

 Circle One : Yes No

 **3. What is used a valid measure of genetic evolution in a species?**

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 **4. List three chemical compounds found in nearly all organisms.** (Not in the book.)

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**IV. Geographic Distribution Of Living Things** *(Not in the book.)*

 **1. Circle the letter of the way Darwin explained the distribution of finch species on the**

 **Galapagos Islands.**

 a. They had descended with modification from a common mainland ancestor.

 b. They had descended with modification from several different mainland ancestors.

 c. They had remained unchanged since arriving on the Galapagos from the mainland.

 d. They had become more similar to one another after arriving on the Galapagos.

 **2. How did Darwin explain the existence of similar but unrelated species?**

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