**Unit 2 Earth 2 Study Guide: Fossils and Geologic Time**

**Terms to Know:** Define and/or identify the importance for each of the following terms

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| 1. Uniformitarianism |  |
| 2. Fossils |  |
| 3. Relative Age  |  |
| 4. Law of Superposition  |  |
| 5. Index Fossils  |  |
| 6. Absolute Age  |  |
| 7. Radio Active Dating  |  |
| 8. Half Life of an Element  |  |
| 9. Ice Cores |  |
| 10. Geologic Time  |  |

**Short Answer:** Answer the questions below.

11- What are three main types of rocks? Quickly describe how each form.

12. What are the five types of fossils? Briefly describe each.

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13- What type of rock do scientists typically find fossils in? Why are fossils not found in igneous rocks?

14- Two types of rock fossils are known as \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_.

15- What are the units of time on the geologic time scale? List them from largest to smallest.

16. Describe Precambrian time on the geologic time scale.

17. After 15,000 years, how many half-lives has a sample of Carbon-14 gone through? (Half-life of Carbon -14 is 5,730 years)

18. What were the earliest forms of life on our planet?

19. What divides Earth’s geologic timescale?

20. What era do scientists consider the ae of dinosaurs? What era do scientists consider the age of mammals?

Age of dinosaurs:

Age of Mammals:

21. When ice cores indicate high levels of Carbon Dioxide, the temperature of Earth \_\_\_\_\_\_\_\_\_\_\_\_.