**Earth’s Interior & Tectonics** (p. 729 – 737)

**I. What Is Earth’s Interior Like?**

**1. Complete the following table.** *(Not all answers in the book.)*

|  |  |  |  |
| --- | --- | --- | --- |
| **Layer Of Earth** | **Types Of Matter** | **Minerals Present** | **Thickness** |
| Crust |  |  |  |
| Upper Mantle |  |  |  |
| Lower Mantle |  |  |  |
| Outer Core |  |  |  |
| Inner Core |  |  |  |

**2. The Earth’s core is hot due to energy release of radioactive isotopes.**

Circle One : True False

**II. Plate Tectonics**

**1. Define the term continental drift.**

Continental Drift –

**2. Who developed the theory of continental drift in 1912?** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3. Wegener named the large supercontinent that came together 200 million years ago :**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4. How did Wegener explain similar fossils on different continents?**

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**5. Circle the letter of each sentence that is true about Earth’s magnetism.**

a. At times in the past, a compass needle on Earth would have pointed South.

b. Rock that makes up the ocean floor lies in a pattern of magnetized strips.

c. The pattern of stripes is different on both sides of mid-ocean ridges.

d. The magnetic memory of rock on the ocean floor changes over time.

**6. What did drilling samples indicate about the ages of seafloor rocks?**

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**7. Define the term plate tectonics.**

Plate Tectonics –

**8. What is believed to be the cause of plate movement?** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**III. Plate Boundaries** *(Some examples not in the book.)*

**1. Volcanoes and earthquakes typically occur around plate boundaries.**

Circle One : True False

**2. Match the plate boundary with the correct definition.**

1. \_\_\_\_\_\_\_\_ Divergent Boundary A. Two plates slip past each other.

2. \_\_\_\_\_\_\_\_ Convergent Boundary B. Two of Earth’s plates slide apart.

3. \_\_\_\_\_\_\_\_ Transform Boundary C. Two plates come together.

**3. Define the term rift valley.**

Rift Valley –

**4. List two examples of a divergent boundary on Earth.**

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

**5. Define the term subduction.**

Subduction –

**6. List two examples of each type of convergent boundary on Earth.**

1. Oceanic-Continental Convergence

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2. Oceanic-Oceanic Convergence

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Continental-Continental Convergence

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7. Define the term fault.**

Fault –

**8. List two examples of a transform boundary on Earth.**

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