ESS 100 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Quiz 3 Practice: Plate Tectonics

Place a check (or an X) next to each of the true statements for each type of plate boundary (or hotspot)

1. Which statements are true about a **Continent/Continent Convergent Plate Boundary**?

a. \_\_\_\_ Relatively gentle eruptions may occur.

b. \_\_\_\_ Very violent eruptions may occur.

c. \_\_\_\_ Rounded, shield volcanoes exist here.

d. \_\_\_\_ Steep composite cone volcanoes exist here.

e. \_\_\_\_ Situated over a **hotter** part of the mantle

f. \_\_\_\_ Shallow-focus earthquakes may occur.

g. \_\_\_\_ New ocean crust is being created here.

h. \_\_\_\_ There is an ocean trench.

i. \_\_\_\_ There are tall mountains but no volcanoes.

j. \_\_\_\_ There is a subduction zone.

2. Which statements are true about an **Ocean Hotspot**?

a. \_\_\_\_ Relatively gentle eruptions may occur.

b. \_\_\_\_ Very violent eruptions may occur.

Hotspot

c. \_\_\_\_ Rounded, shield volcanoes exist here.

d. \_\_\_\_ Steep composite cone volcanoes exist here.

e. \_\_\_\_ Situated over a **hotter** part of the mantle

f. \_\_\_\_ Shallow-focus earthquakes may occur.

g. \_\_\_\_ Deep-focus earthquakes may occur.

h. \_\_\_\_ There is an ocean trench.

i. \_\_\_\_ There are tall mountains but no volcanoes.

j. \_\_\_\_ There is a subduction zone.

3. Which statements are true about an **Ocean/Ocean Convergent Plate Boundary**?

a. \_\_\_\_ Relatively gentle eruptions may occur.

b. \_\_\_\_ Very violent eruptions may occur.

c. \_\_\_\_ Rounded, shield volcanoes exist here.

d. \_\_\_\_ Steep composite cone volcanoes exist here.

e. \_\_\_\_ Situated over a **hotter** part of the mantle

f. \_\_\_\_ Shallow-focus earthquakes may occur.

g. \_\_\_\_ Deep-focus earthquakes may occur.

h. \_\_\_\_ New ocean crust is being created here.

i. \_\_\_\_ There is an ocean trench.

j. \_\_\_\_ There are tall mountains but no volcanoes.

k. \_\_\_\_ There is a subduction zone.

4. Which statements are true about a **Continent/Continent Divergent Plate Boundary**?

a. \_\_\_\_ Relatively gentle eruptions may occur.

b. \_\_\_\_ Situated over a **hotter** part of the mantle

c. \_\_\_\_ Shallow-focus earthquakes may occur.

d. \_\_\_\_ Deep-focus earthquakes may occur.

e. \_\_\_\_ New ocean crust is being created here.

f. \_\_\_\_ There is an ocean trench.

g. \_\_\_\_ There are tall mountains but no volcanoes.

h. \_\_\_\_ There is a subduction zone.

5. Which statements are true about a **Continent/Ocean Convergent Plate Boundary**?

a. \_\_\_\_ Relatively gentle eruptions may occur.

b. \_\_\_\_ Very violent eruptions may occur.

c. \_\_\_\_ Rounded, shield volcanoes exist here.

d. \_\_\_\_ Steep composite cone volcanoes exist here.

e. \_\_\_\_ Situated over a **hotter** part of the mantle

f. \_\_\_\_ Shallow-focus earthquakes may occur.

g. \_\_\_\_ Deep-focus earthquakes may occur.

h. \_\_\_\_ New ocean crust is being created here.

i. \_\_\_\_ There is an ocean trench.

j. \_\_\_\_ There are tall mountains but no volcanoes.

k. \_\_\_\_ There is a subduction zone.

6. Which statements are true about a **Transform Plate Boundary**?

a. \_\_\_\_ Rounded, shield volcanoes exist here.

b. \_\_\_\_ Steep composite cone volcanoes exist here.

c. \_\_\_\_ Situated over a **hotter** part of the mantle

d. \_\_\_\_ Shallow-focus earthquakes may occur.

e. \_\_\_\_ Deep-focus earthquakes may occur.

f. \_\_\_\_ New ocean crust is being created here.

g. \_\_\_\_ There is an ocean trench.

h. \_\_\_\_ There are tall mountains but no volcanoes.

i. \_\_\_\_ There is a subduction zone.

7. Which statements are true about an **Ocean/Ocean Divergent Plate Boundary**?

a. \_\_\_\_ Relatively gentle eruptions may occur.

b. \_\_\_\_ Very violent eruptions may occur.

c. \_\_\_\_ Rounded, shield volcanoes exist here.

d. \_\_\_\_ Steep composite cone volcanoes exist here.

e. \_\_\_\_ Situated over a **hotter** part of the mantle

f. \_\_\_\_ Shallow-focus earthquakes may occur.

g. \_\_\_\_ Deep-focus earthquakes may occur.

h. \_\_\_\_ New ocean crust is being created here.

i. \_\_\_\_ There is an ocean trench.

j. \_\_\_\_ There are tall mountains but no volcanoes.

k. \_\_\_\_ There is a subduction zone.