

GEO 102: Assignment 1

Complete the following questions worth 30 points. All answers must be handwritten.

Due Monday, February 6th at the end of class. **No late work will be accepted.**

NAME: ANSWER KEY

J#: _____

1. $\frac{1}{2}$ point Which sphere of physical geography includes rivers? HYDROSPHERE
2. $\frac{1}{2}$ point each Lines of longitude begin at the PRIME MERIDIAN (proper name) whereas lines of latitude end at the NORTH AND SOUTH POLES (proper name).
3. $\frac{1}{2}$ point each For the following projections, identify what they are typically used to show (i.e. specific landmasses or countries):
 - a. Plane projection POLE AREAS
 - b. Cylindrical projection WORLD
 - c. Conic projection LARGE EAST-WEST EXPANSES OR UNITED STATES (EITHER ANSWER OK)
4. 1 point What is a contour line? A LINE CONNECTING POINTS OF EQUAL ELEVATION
5. $\frac{1}{2}$ point each Identify the advantages of a globe vs. a map:
 - a. SHAPES OF THINGS ARE ACCURATE ON A GLOBE
 - b. AREAS ARE DISPLAYED ACCURATLY ON A GLOBE
 - c. SCALE IS CONSTANT ON A GLOBE
 - d. DIRECTIONS ARE ACCURATLY DISPLAYED ON A GLOBE
6. 1 point What is the difference between a rock and a mineral? MINERAL IS A NATURALLY INORGANIC WITH A SPECIFIC COMPOSITION WHILE A ROCK IS COMPOSED OF ONE OR MORE MINERALS
7. For each of the following rocks, state whether they are igneous, sedimentary, or metamorphic. $\frac{1}{2}$ point each
 - a. Granite IGNEOUS
 - b. Limestone SEDIMENTARY
 - c. Basalt IGNEOUS
 - d. Marble METAMORPHIC
 - e. Sandstone SEDIMENTARY
 - f. Quartzite METAMORPHIC

8. List the layers of the interior of earth, *in order* from the surface to the earth's center. Beside each name, indicate the fluidity of its composition (solid, liquid, plastic). $\frac{1}{2}$ point each
- CRUST SOLID
 - MANTLE PLASTIC
 - OUTER CORE LIQUID
 - INNER CORE SOLID
9. Identify three key pieces of evidence used by Wegner to try to prove his continental drift theory. 1 point each
- FIT OF CONTINENTS
 - MATCH OF GEOLOGIC REGIONS
 - BIOLOGICAL REGIONS MATCH
10. Identify additional evidence now is used to support Plate Tectonics Theory (excluding evidence previously identified by Wegner). $\frac{1}{2}$ point each
- AGE OF THE OCEANIC CRUST/OCEAN FLOOR
 - PALEOMAGNETISM (POLARITY OF ROCKS ON THE OCEAN FLOOR)
11. List each type of plate boundary (be specific as the plate type): 1 point each
- DIVERGENT OCEAN TO OCEAN
 - DIVERGENT CONTINENTAL TO CONTINENTAL
 - CONVERGENT OCEAN TO OCEAN
 - CONVERGENT OCEAN TO CONTINENTAL
 - CONVERGENT CONTINENTAL TO CONTINENTAL
 - LATERAL
12. Answer the following questions concerning plate boundaries: 1 point each
- Which boundary is likely to be the most violent? CONVERGENT
 - Which boundaries are associated with volcanoes? CONVERGENT OCEAN TO OCEAN, CONVERGENT CONTINENTAL TO OCEAN, AND DIVERGENT
 - What type of plate movement increases the sizes of plates? DIVERGENT
 - Which plate boundary is not represented on any of the edges of the North American plate?
DIVERGENT CONTINENTAL TO CONTINENTAL
13. What type of volcano is located in the Pacific Northwest? 1 point COMPOSITE
14. Which volcano typically has the most violent eruption? 1 point COMPOSITE