Earth Systems 3209 Unit 4 Test Review

Please answer the following completely and on your own paper. You may type them, or handwrite them legibly.

Definitions (Terms to know)

Continental drift	Plate tectonic theory	Convergent boundary
Divergent Boundary	Transform Boundary	Rift Valley
Crustal Deformation	Force	Stress
Compressional	Tensional Shearing	Elastic
Brittle	Ductile	Faulting
Dip slip	Strike slip	Folding
Anticline	Syncline	Earthquake
Seismic wave	Focus	Epicentre
Foreshock	Aftershock	Surfaces waves
Primary waves	Secondary waves	Richter
Modified Mercalli	Amplitude	Intensity
Volcano	Shield	Ash and Cinder
Composite	Pahoehoe	AA
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Review Questions

- 1. Describe the theory of continental drift
- 2. Describe the evidence to support the theory of continental drift
- 3. Describe the evolution of plate tectonic theory through the contributions of various scientists
- 4. Contrast the explanations provided by Wegener and Holmes for the mechanism of continental movement
- 5. Describe the theory of plate tectonics
- 6. Describe and give examples of convergent, divergent and transform plate boundaries
- 7. Describe and give examples of the different types of convergent plate boundaries
- 8. Describe a rift valley and how it evolves into a divergent plate boundary
- 9. Describe the evidence which supports plate tectonic theory
- 10. Describe the geology of the island of Newfoundland, and how it was formed.
- 11. Describe the types of forces stresses that produce crustal deformation
- 12. Describe the types of deformation
- 13. Describe the factors that affect deformation
- 14. Relate faulting to the factors that affect deformation
- 15. Describe the two major types of faults and associated forces/stresses
- 16. Relate folding to the factors that affect deformation
- 17. Describe the two common types of folds
- 18. Describe the causes of an earthquake
- 19. Identify the location of earthquakes and relate them to their plate boundary
- 20. Describe properties of the different seismic waves
- 21. Distinguish between earthquake scales
- 22. Describe how seismographs and resulting seismograms are used to measure seismic waves

- 23. Describe factors affecting the nature of volcanic eruptions
- 24. Describe the three types of volcanoes
- 25. Describe the type of eruption for each volcano type in relation to the different plate boundaries
- 26. Identify the rocks that form in relation to each type of volcano
- 27. Distinguish between the types of lava
- 28. Describe intraplate volcanism as it relates to hotspots
- 29. Describe the formation of a lava plateau
- 30. Explain the global effects of volcanic activity