

Exam 1: Review

Covers: Origin of the Universe and planet Earth, Plate Tectonics and Earthquakes.
Unit 3, chapters 5 and 6.

You should:

1. Have an understanding of how the universe progressed from the Big Bang to the present. Be able to define terms such as galaxy, solar system, planet, star, core, mantle, crust, asteroid and meteor. Understand how galaxies and solar systems form, how the atmosphere formed, what gases were released and how the moon was formed.
2. Be able to explain the concept of Plate Tectonics including its conceiver, how it works and proofs that it occurs. Be able to define plate, convection, Pangaea, rift, ridge, trench and subduction. Be able to fully describe what is happening at the three types of boundaries.
3. Understand how earthquakes occur and how they can affect human interests. Have a general understanding of the Richter and Mercalli scale. Be able to define fracture, joint, fault, seismic, seismograph/seismometer, liquefaction, tsunami, slippage, focus, epicenter, aftershock and foreshock. Understand the types of waves and how they move.
4. Understand the difference between continental and oceanic crust including their composition, densities and cooling rates. Define terms such as fold, anticline, syncline, overturned, dome, basin, strike-slip, dip-slip, footwall, hanging wall, normal fault, reverse fault, thrust fault, compressional stress, tensional stress, and graben.
5. Understand how different mountain belts form. Be able to define orogeny, accretionary wedge and exotic terrane.

Good luck!