

# Ch. 9 Plate Tectonics: Study Guide

## Vocabulary

**8.4 Earth's Layered Structure:** crust, p. 233; mantle, p. 234; lithosphere, p. 234; asthenosphere, p. 235; outer core, p. 235; inner core, p. 235;

**9.1 Plate Tectonics:** continental drift, p. 246; Pangaea, p. 246; plate tectonics, p. 254; divergent boundary, p. 255; convergent boundary, p. 255; transform fault boundary, p. 255; ridge, p. 256; seafloor spreading, p. 256; subduction zone, p. 261; trench, p. 261; paleomagnetism, p. 265; hot spot, p. 268

## Reviewing Content

Choose the letter that best answers the question or completes the statement.

- What is the weaker, hotter zone beneath the lithosphere that allows for motion of Earth's rigid outer shell?
  - a. Crust
  - b. Asthenosphere
  - c. outer core
  - d. inner core
- Most of Earth's earthquakes, volcanoes, and mountain building occur
  - a. in the center of continents.
  - b. in the Himalayas.
  - c. at plate boundaries.
  - d. at volcanic island arcs.
- Alfred Wegener is best known for what hypothesis?
  - a. plate tectonics
  - b. seafloor spreading
  - c. continental drift
  - d. subduction
- Complex mountain systems such as the Himalayas are the result of
  - a. oceanic-oceanic convergence.
  - b. hot spots.
  - c. continental volcanic arcs.
  - d. continental-continental convergence.
- What is the type of plate boundary where two plates move together, causing one of the slabs of lithosphere to descend into the mantle beneath an overriding plate?
  - a. oceanic-continental convergent
  - b. Divergent
  - c. transform fault
  - d. continental-continental convergent
- One of the main objections to Wegener's hypothesis of continental drift was that he was unable to provide an acceptable
  - a. rate of continental drift.
  - b. date of continental drift.
  - c. mechanism of continental drift.
  - d. direction of continental drift.
- Which one of the following was NOT used as support of Wegener's continental drift hypothesis?
  - a. fossil evidence
  - b. Paleomagnetism
  - c. the fit of South America and Africa
  - d. ancient climates
- At what type of plate boundary do plates move apart, resulting in the upwelling of material from the mantle to create new seafloor?
  - a. Divergent
  - b. Convergent
  - c. transform fault
  - d. Subduction

Use the diagram below to answer Questions

- What feature is labeled B?
  - a. continental volcanic arc
  - b. a trench
  - c. continental lithosphere
  - d. an ocean ridge
- The process occurring at the location labeled D is
  - a. oceanic lithosphere being created.
  - b. continental lithosphere being created.
  - c. a continental-continental collision occurring.
  - d. oceanic lithosphere being subducted.



# Chapter 10 Plate Tectonics Answers

**Victor M. Corman**



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