Earth Science 110: Introduction to Geology. Exam 2 Review.

<table>
<thead>
<tr>
<th>Topics:</th>
<th>Reading:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Minerals</td>
<td>Chapters 3, 4, 5</td>
</tr>
<tr>
<td>• Rock cycle, igneous rocks</td>
<td></td>
</tr>
<tr>
<td>• Volcanic features in Hawaii</td>
<td></td>
</tr>
<tr>
<td>• Cascades volcanoes</td>
<td></td>
</tr>
</tbody>
</table>

Note: This is NOT intended to provide a comprehensive review.
The questions below are examples of the type of questions that you should expect on the exam.

True or false?

T (1) Graphite and diamond have the same chemical composition but different crystalline structures.
T (2) Individual crystals of the clay mineral kaolinite are microscopic sheet silicates.
F (3) Calcite and quartz are both carbonate minerals.
T (4) Most extrusive lavas crystallize to form igneous rocks with aphanitic texture.
T (5) Glassy igneous rocks (obsidian) form when lava cools very quickly.
F (6) Composite cones are steeper and larger than shield volcanoes.
F (7) Haleakala (on the island of Maui in Hawaii) is a cinder cone.

Multiple choice.

D (8) A small volcano made up of small gravel fragments blasted out of a central vent is a
   (a) composite cone                     (c) shield volcano
   (b) flood basalt                      (d) cinder cone

B (9) The islands of Hawaii are an example of
   (a) igneous activity above a rift zone (c) igneous activity above a subduction zone
   (b) igneous activity above a hot spot (d) a volcanic neck

C (10) The Cascade Mountains formed due to:
   (a) continental collision and folding (c) volcanics near a subduction zone
   (b) volcanics above a hot spot        (d) an ancient mid-ocean ridge

C (11) Mount Rainier, Mount St. Helens, and Mount Shasta are all:
   (a) shield volcanoes                  (c) composite cones
   (b) cinder cones                      (d) calderas