

## Igneous Rocks

Q1. Use the following unknown samples and fill in the following table:

[illegible]

[illegible]

**Q2.** For each rock in the following pairs, state in what way they are similar and in what way they are different (Composition, texture, rate of cooling, mode of occurrence – extrusive vs. intrusive).

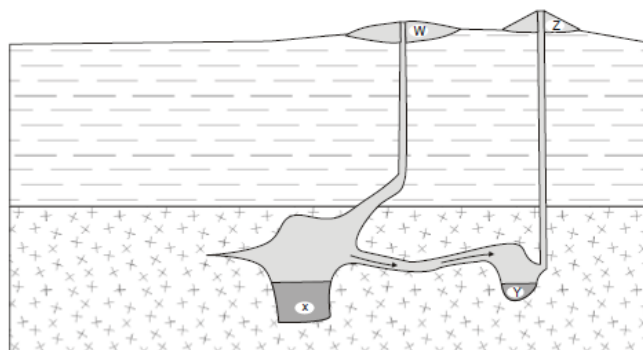
a) gabbro and granite	b) basalt and gabbro
c) rhyolite and granite	d) rhyolite and obsidian

**Q3.** Refer to Figure 1 below.

b) In what textural way would you expect the igneous rock at point Y to differ from the igneous rock at point Z? Why?

c) Where would you most likely find obsidian: at point X, Y, Z or W? Why?

Given the following rock types...gabbro, basalt, diorite and rhyolite, indicate (insert arrows) where they are likely to form on the diagram...X, Y, W and Z.



gabbro  
basalt  
diorite  
rhyolite

**Figure 1:** Partial crystallization at X, subsequent migration (arrows), and later crystallization at Y can result in different mineral composition.