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ENVI.2010 - Principles of Earth & Environmental Systems I

Study Questions IX

Igneous Rocks and Volcanoes

1. Distinguish between intrusive and extrusive igneous rocks.

2. How does magma viscosity vary as a function of the magma temperature and silica content?

3. What is the relationship between the viscosity of a magma and the type of volcanic eruption?

4. What types of material are erupted from a volcano?

5. Distinguish between shield volcanoes and composite (strato-) volcanoes.

5. Distinguish between a dike and a sill.

6. Name and briefly describe the three factors that can lead to the melting of rocks.

7. Name and briefly describe five types of volcanic hazards.

8. What types of measurements would you make to assess the likelihood of a volcanic eruption?