Assignment 1

Due on 2020-02-12, 23:59 GMT.

This document contains questions for an assignment. Please read it carefully and submit your answers by the deadline.

1. Modern geologists study three chief aspects of tectonics. Identify and explain the three aspects.

2. A geology student is studying a rock formation that is composed of light-colored metamorphic rocks. What might be the original rocks from which these metamorphic rocks formed?

3. During a field trip, a geologist observes a sequence of sedimentary layers that are inclined. What type of tectonic movement might have caused these layers to tilt?

4. A geologist is analyzing a sample of igneous rock. The sample contains large, spherical crystals. What type of igneous rock is this sample likely to be?

5. A geologist is examining a weathered surface of a rock. What is the process that forms this surface?

6. A geologist is studying a sedimentary deposit that contains fossilized remains of marine organisms. What type of sedimentary deposit is this likely to be?

7. A geologist is examining a hillside that is composed of a layer of loose, unconsolidated material. What is the name given to this type of material?

8. A geologist is analyzing a sample of metamorphic rock. The sample is characterized by mica sheets and hornblende. What type of metamorphic rock is this sample likely to be?

9. A geologist is studying a sequence of sedimentary layers that are tilted and faulted. What type of tectonic movement might have caused these layers to tilt and fault?

10. A geologist is analyzing a sample of igneous rock. The sample contains small, equant crystals. What type of igneous rock is this sample likely to be?

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15. A geologist is studying a sequence of sedimentary layers that are tilted and faulted. What type of tectonic movement might have caused these layers to tilt and fault?

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