



Name _____ Class _____ Date _____

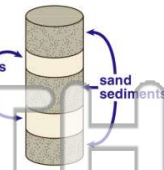
1 Biotite mica and muscovite mica have different chemical compositions. Compared to the magma from which biotite mica forms, the **magma from which muscovite mica forms is usually**

A more mafic and less dense
 B more mafic and more dense
 C more felsic and less dense
 D more felsic and more dense

2 Which types of rock would most likely form from **compaction and cementation** of these sediments?

A sandstone and limestone
 B shale and coal
 C breccia and rock salt
 D conglomerate and siltstone


A Drill Core of Sediment Taken from the Bottom of a Lake



3 Which **intrusive igneous rock** could be composed of approximately 60% pyroxene, 25% plagioclase feldspar, 10% olivine, and 5% amphibole?

4 Which **event** is the best example of **erosion**?

A breaking apart of shale as a result of water freezing




PREVIEW

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A conglomerate B breccia C sandstone D shale

A volcanic eruptions and crystallization
 B compaction and/or cementation
 C heat and pressure
 D melting and/or solidification

8



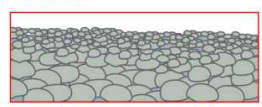
A conglomerate B breccia C sandstone D shale

A breccia and conglomerate
 B breccia and shale
 C sandstone and shale
 D sandstone and breccia

9 The cross section below shows a profile of a sediment deposit.

The **pattern of sediment size** shown indicates that these sediments were most likely **deposited** within a

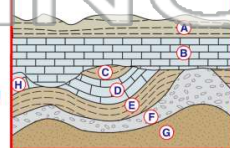
A landslide B drumlin C moraine D delta



(drawn to scale)

10 Which sequence of events most likely caused the **unconformity** shown at the bottom of rock layer B?

A folding → uplift → erosion → deposition
 B intrusion → erosion → folding → uplift
 C erosion → folding → deposition → intrusion
 D deposition → uplift → erosion → folding





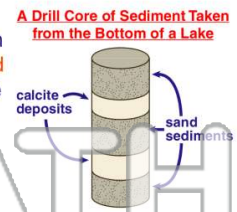
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