



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

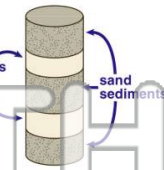
1 Biotite mica and muscovite mica have different chemical compositions. Compared to the magma from which biotite mica forms, the **magma from which muscovite mica forms is usually**

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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7



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



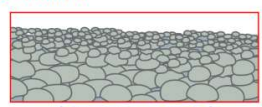
A conglomerate B breccia C sandstone D shale

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.

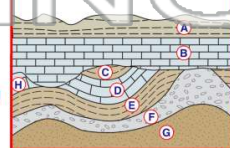
The **pattern of sediment size** shown indicates that these sediments were most likely **deposited** within a

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



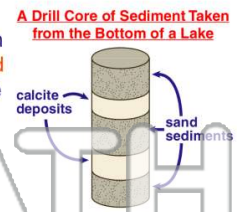
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