

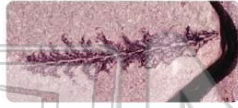


Name _____ Class _____ Date _____

1 When **leaves** are preserved in the rock record, they are usually preserved as a very thin film of black carbon. This process is called **carbonization**.

True or false?

- A true
- B false



3 A scientist who specializes in the study of **fossils, ancient life, and ancient environments** is called a(n) _____.

- A mineralogist
- B archaeologist
- C microbiologist
- D paleontologist



2 Fossils of organisms that lived in a very **specific time period** for a relatively short period of time are called **index fossils**. How do paleontologists use index fossils?

- A make a mold to identify fossils of the same shape
- B follow a trail of footprints to lead to complete skeletons in the rock
- C estimate the date when that fossil and surrounding rock were formed
- D identify what that animal may have eaten

4 A paleontologist has discovered fossils **on top of a mountain**. The fossils include trilobites, crinoids, brachiopods, and bivalves (like clams). This fossil assemblage reveals that the ocean sediments on top of this mountain were at one time at the **bottom of an ocean** and have been **uplifted**.

True or false?



5



PREVIEW

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7

- A Phacops fossil is 400 million years old.
- B The sandstone at the bottom is older than the limestone at the top.
- C The conglomerate is younger than the siltstone immediately below it.
- D The Phacops fossil is about halfway down the stratigraphic column.



of England.

True or false?

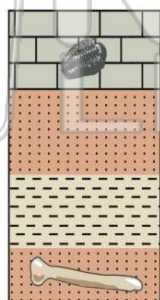
- A true
- B false



9

In this rock sequence, a reptile fossil is **below** the trilobite fossil **even though reptiles, such as dinosaurs, are younger** than trilobites. Is it a **reasonable** geological explanation to **infer** that this rock sequence has been turned upside down by **dramatic forces** such as an earthquake or some manmade disturbance?

- A yes
- B no



10

Absolute dating of rocks _____.

- A determines the number of years a rock has existed
- B determines the relative age of one rock compared to another
- C uses fossils to approximate the ages of rock layers in a sequence
- D compares the fossils present in different rocks to determine which is older



ANSWER KEY

When **leaves** are preserved in the rock record, they are usually preserved as a very thin film of black carbon. This process is called **carbonization**.

True or false?

- A true
- B false



(a)

Fossils of organisms that lived in a very **specific time period** for a relatively short period of time are called **index fossils**. How do paleontologists use index fossils?

- A make a mold to identify fossils of the same shape
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(c)

A scientist who specializes in the study of **fossils, ancient life, and ancient environments** is called a(n) _____.

- A mineralogist
- B archaeologist
- C microbiologist
- D paleontologist



(d)

A paleontologist has discovered fossils **on top of a mountain**. The fossils include trilobites, crinoids, brachiopods, and bivalves (like clams). This fossil assemblage reveals that the ocean sediments on top of this mountain were at one time at the **bottom of an ocean** and have been **uplifted**.

True or false?

- A true



(a)



PREVIEW

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- than the limestone at the top.
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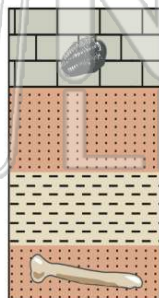
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(a)

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(a)