



Name _____ Class _____ Date _____

1 Which **mountain range** resulted from the collision of North America and Africa, as parts of Pangea joined together in the late **Pennsylvanian Period**?

A Appalachian Mountains
B Acadian Mountains
C Taconic Mountains
D Grenville Mountains

2 The large coal fields found in Pennsylvania provide evidence that the climate of the northeastern United States was much warmer during the Carboniferous Period. **This change in climate over time is best explained by the**

A movements of tectonic plates
B effects of seasons
C changes in the environment caused by humans
D evolution of life

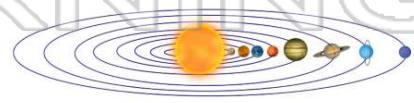
3 The unconformity at the bottom of the Silurian rock layer indicates a **gap** in the geologic time record. **What is the minimum time, in millions of years, shown by the gap?**

A 13
B 47
C 101



4 Compared to Earth's solar system, the **universe** is inferred to be

A younger and larger
B younger and smaller



5

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7

A collided with the Nazca Plate
B collided with the North American Plate
C slid away from the Nazca Plate
D slid away from the North American Plate

B Large sedimentary torus exist in the mantle near the ridge.
C Oceanic crust on both sides of the ridge is less dense than continental crust.
D Oceanic crust on both sides of the ridge shows matching patterns of reversed and normal magnetic polarity.

9 Earth's early atmosphere formed during the Early Archean Era. **Which gas was generally absent from the atmosphere at that time?**

A water vapor
B carbon dioxide
C nitrogen
D oxygen



10 According to **fossil evidence**, which sequence shows the **order** in which these four life-forms first appeared on Earth?

A reptiles → amphibians → insects → fish
B insects → fish → reptiles → amphibians
C amphibians → reptiles → fish → insects
D fish → insects → amphibians → reptile





ANSWER KEY

Which **mountain range** resulted from the collision of North America and Africa, as parts of Pangea joined together in the late **Pennsylvanian Period**?

- A Appalachian Mountains
- B Acadian Mountains
- C Taconic Mountains
- D Grenville Mountains

(a)

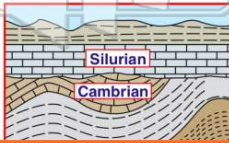
The large coal fields found in Pennsylvania provide evidence that the climate of the northeastern United States was much warmer during the Carboniferous Period. **This change in climate over time is best explained by the**

- A movements of tectonic plates
- B effects of seasons
- C changes in the environment caused by humans
- D evolution of life

(a)

The unconformity at the bottom of the Silurian rock layer indicates a **gap** in the geologic time record. **What is the minimum time, in millions of years, shown by the gap?**

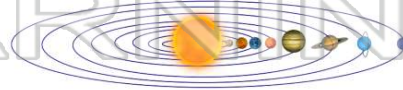
- A 13
- B 47
- C 101
- D 126



(b)

Compared to Earth's solar system, the **universe** is inferred to be

- A younger and larger
- B younger and smaller
- C older and larger



(c)



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- B collided with the North American Plate
- C slid away from the Nazca Plate
- D slid away from the North American Plate

- C Oceanic crust on both sides of the ridge is less dense than continental crust.
- D Oceanic crust on both sides of the ridge shows matching patterns of reversed and normal magnetic polarity.

Earth's early atmosphere formed during the Early Archean Era. **Which gas was generally absent from the atmosphere at that time?**

- A water vapor
- B carbon dioxide
- C nitrogen
- D oxygen



(d)

According to **fossil evidence**, which sequence shows the **order** in which these four life-forms first appeared on Earth?

- A reptiles → amphibians → insects → fish
- B insects → fish → reptiles → amphibians
- C amphibians → reptiles → fish → insects
- D fish → insects → amphibians → reptile



(d)