



Name _____ Class _____ Date _____

1 A very large, circular, impact crater under the coast of Mexico is believed to be approximately 65 million years old. This **impact event** is inferred to be related to the

- A appearance of the earliest trilobites
- B advance and retreat of the last continental ice sheet
- C extinction of the dinosaurs
- D formation of Pangea



2 Fossil pollen has been recovered from sediments deposited in late-Pleistocene lakes. The pollen's **geologic age** can most accurately be **measured** by using

- A rubidium-87
- B potassium-40
- C oxygen-18
- D carbon-14

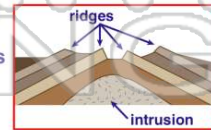


3 According to plate tectonic theory, during which geologic time interval did the continents of **North America and Africa separate**, resulting in the initial opening of the Atlantic Ocean?

- A Mesozoic Era
- B Paleozoic Era



4 This cross section shows rock layers that underwent **crustal movement** during an **igneous intrusion** in the Cretaceous Period.



Which statement best describes the cause of the **ridges** shown?

- A The rock layers were evenly weathered.
- B Some rock layers were more resistant to

5



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7

- C more complex life-forms probably have evolved from less complex life-forms
- D older bedrock contains a great variety of life-forms, while younger bedrock contains less variety of life-forms

- A 2,850 years
- B 5,700 years
- C 11,400 years
- D 17,100 years



9

It is inferred that during the early **Archean Era** the **atmosphere of Earth** contained water vapor, carbon dioxide, nitrogen, and other gases in small amounts. **These gases probably came from**

- A precipitation of groundwater
- B volcanic eruptions
- C evaporation of Paleozoic oceans
- D convection currents in the mantle

10

Geologists have **subdivided geologic time** into **periods** that are based on

- A carbon dating
- B rock types
- C fossil evidence
- D landscape regions





ANSWER KEY

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(c)

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(d)

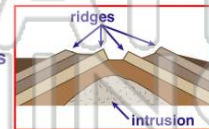
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- A Mesozoic Era
- B Paleozoic Era
- C Proterozoic Eon
- D



(a)

This cross section shows rock layers that underwent **crustal movement** during an **igneous intrusion** in the Cretaceous Period.



Which statement best describes the cause of the **ridges** shown?

- A The rock layers were evenly weathered.
- B Some rock layers were more resistant to weathering and erosion.
- C The igneous intrusion flowed over the surface.

(b)



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evolved from less complex life-forms
D older bedrock contains a great variety of life-forms, while younger bedrock contains less variety of life-forms

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