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EARTH PROCESSES

1. Which of the following layers of Earth's interior is liquid?
 - I. inner core
 - II. outer core
 - III. mantle
 - (A) I only
 - (B) II only
 - (C) III only
 - (D) I and II only
 - (E) I, II, and III

2. Which of the following places the divisions of the geologic time scale in the correct order from largest to smallest?
 - (A) period, eon, era, epoch
 - (B) eon, era, period, epoch
 - (C) epoch, period, era, eon
 - (D) era, period, epoch, eon
 - (E) period, epoch, era, eon

3. Reptiles, such as dinosaurs, dominated Earth during which geologic era?
 - (A) Phanerozoic
 - (B) Paleozoic
 - (C) Jurassic
 - (D) Triassic
 - (E) Mesozoic

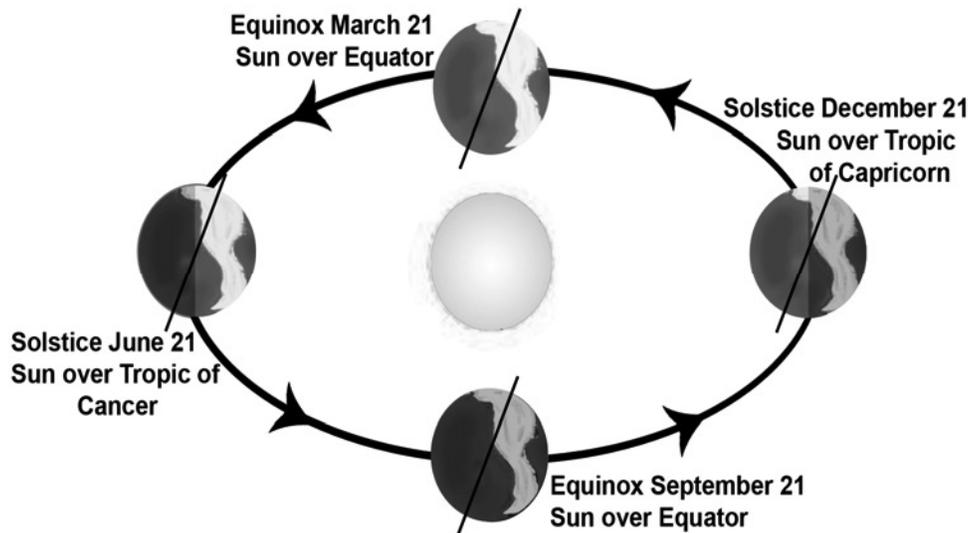
4. Which of the following most accurately describes the time period we live in today?
 - (A) Cenozoic era
 - (B) Quaternary period
 - (C) Holocene epoch
 - (D) Hadean eon
 - (E) Phanerozoic eon

Questions 5-8 use the following answer choices. Each answer may be used once, more than once, or not at all.

- (A) lithosphere
- (B) asthenosphere
- (C) mantle
- (D) outer core
- (E) inner core

- 5. Comprises nearly 70% of Earth's interior
- 6. Malleable part of mantle where magma is formed
- 7. Composed of solid nickel and iron
- 8. Segments of this layer "float" on the asthenosphere

Questions 9-10 refer to the following diagram. Each answer choice may be used once, more than once, or not at all.



- 9. According to the diagram, when is it summer in the Northern Hemisphere?
 - (A) when the Northern Hemisphere is tilted toward the Sun
 - (B) when Earth is closest to the Sun
 - (C) when the Southern Hemisphere is tilted toward the Sun
 - (D) when the Earth is farthest from the Sun
 - (E) when the Earth is not tilted on its axis

1. Planet Q orbits its star on its axis. It takes 45 days for the planet to make one complete orbit. The planet rotates on its axis every 45 days. There is no tilt to the axis as it passes through its orbit.
 - (a) Compare and contrast the length of the year and the day on Planet Q with the length of the year and the day on Planet Earth.
 - (b) Describe the different seasons on Planet Q.
 - (c) Explain why parts of Planet Q have very high temperatures while other parts of Planet Q have very cold temperatures.