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Geological History and Evolution of Life-Revision Summary

GEOLOGIC TIME SCALE

What is geological time scale?

- The geologic time scale divides 4.6 billion years of Earth's history into time units
- The geological time scale is divided into time units of unequal length because changes did not occur at regular intervals

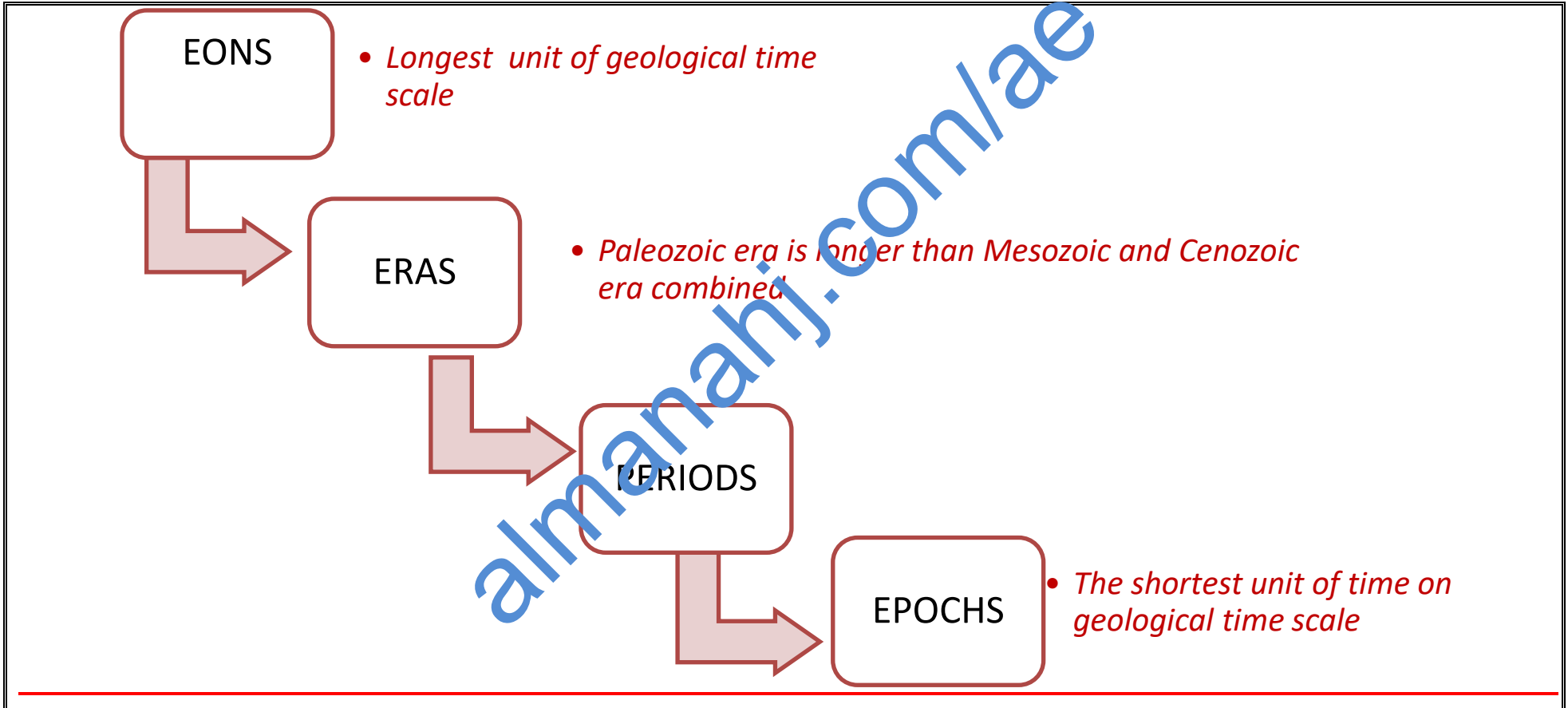
Why geological time scale?

- It helps scientists describe and explain the events that have occurred on Earth over time
- Geologists develop a time line of Earth's past to organize events of Earth's past.

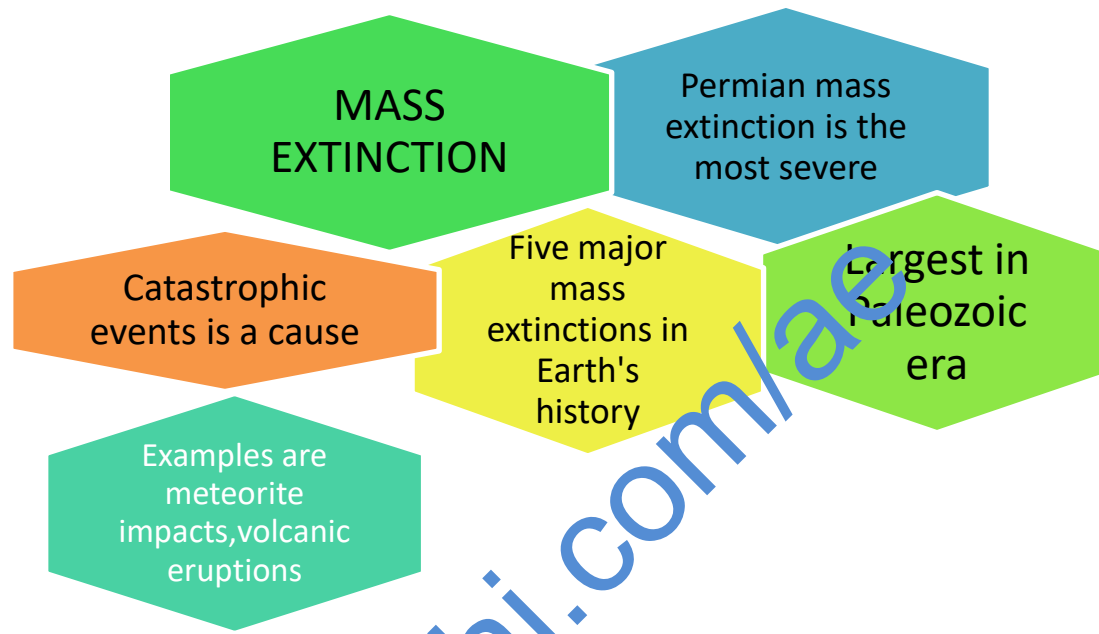
How do scientists define divisions in geological time scale?

- They use sudden changes in the fossil record to define these divisions
- The formation of mountains is an example of a major event that would define a time division according to geological time scale

Units of geological time scale



MASS EXTINCTION-Large number of species become extinct in a short period of time



Precambrian time

- This timeframe had very few multicellular organism
- Most of the organisms were single celled ,like present day bacteria
- Hadean,Archean and Proterozoic are 3 eons of the Precambrian time
- Precambrian time is nearly 90% of Earth's history

Cambrian time

- The sudden appearance of new and complex life forms is Cambrian explosion
- First period of Phanerozoic eon
- The Cambrian explosion marked the start of diversity of life

Chapter 11.1 /11.2 Revision 2020

1- Which were the first organisms to inhabit land environments?

- A. amphibians
- B. plants**
- C. reptiles
- D. trilobites

2- Which event(s) produced the Appalachian Mountains?

- A. breakup of Pangaea
- B. collisions of continents**
- C. flooding of the continent
- D. opening of the Atlantic Ocean

3- What are the many divisions in the geologic time scale based on?

- A. changes in the fossil record every billion years
- B. changes in the fossil record every million years
- C. gradual changes in the fossil record**
- D. sudden changes in the fossil record

4-Which is **NOT** a cause of a mass extinction event?

- A. meteorite collision
- B. severe hurricane**
- C. tectonic activity
- D. volcanic activity



5-What is unrealistic about the picture on this stamp?

- A. Dinosaurs were not this large.
- B. Dinosaurs did not have long necks.
- C. Humans did not live with dinosaurs.
- D. Early humans did not use stone tools.

6-Which is the smallest unit of geologic time?

- A. Eon
- B. Era
- C. Epoch
- D. Period

7-Which is known as the age of invertebrates?

- A. Early Cenozoic
- B. Early Paleozoic
- C. Late Mesozoic
- D. Late Precambrian

8-What is the approximate age of the oldest fossils of early human ancestors?

- A. 10,000 years
- B. 6 million years
- C. 65 million years
- D. 3.5 billion years

9-Which was NOT an adaptation that enabled amphibians to live on land?

- A. ability to breathe oxygen
- B. ability to lay eggs on land
- C. strong limbs
- D. thick skin

10-Which did **NOT** occur in the Paleozoic era?

- A. appearance of mammals**
- B. development of coal swamps**
- C. evolution of invertebrates**
- D. formation of Pangaea**

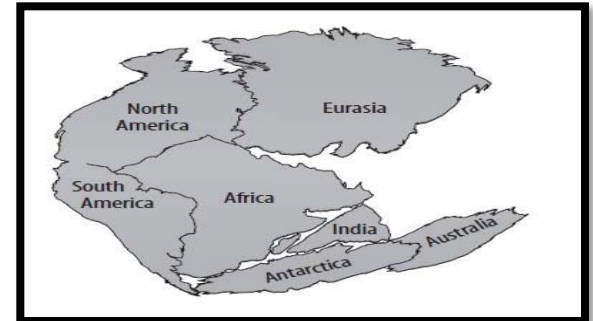
11.What characteristic of Precambrian life, shown in the figure, contributes to the fact that the Precambrian fossil record is so sparse?

- A- Organisms were multicolored.**
- B- All living things were single-celled.**
- C- All organisms lived on land.**
- D- Many of the organisms had soft bodies.**



12.What was Pangaea?

- A- the original name for North America**
- B- a large, single landmass**
- C- a type of trilobite**
- D- a geologic era**



13.What is meant by the term “age of invertebrates”?

- A- That is the time when snakes were the dominant animal species.**
- B- During that time coal was produced in the tar pits.**
- C- All organisms present had the beginnings of a spinal column.**
- D- The dominant organisms were without internal skeletons and lived in the oceans.**

14.The Appalachian Mountains, an old mountain range, was formed during what era?

- A- Cenozoic **B- Paleozoic** C- Mesozoic D- Precambrian

15.What occurs at the end of a geologic era?

- A- a flood **B- an extinction** C- a comet hitting Earth D- a mountain-building event

16.Pangaea was the name for which type of land mass?

- A- supercontinent** B- continental plate C- super volcano D- continental drift

17.Which components are required to form a coal swamp?

- A- saltwater and trees
B- oxygen-rich environment and saltwater
C- rich plant life and oxygen-poor environment
D- abundance of animals and tropical forests

18.Which era saw the extinction of up to 95% of marine life forms?

- A- Permian B- Phanerozoic
C- Mesozoic **D- Paleozoic**

19.Life first appeared on land during the middle part of the Paleozoic era. During which period did life first appear on land?

- A- Cenozoic B- Permian
C- Jurassic **D- Silurian**

