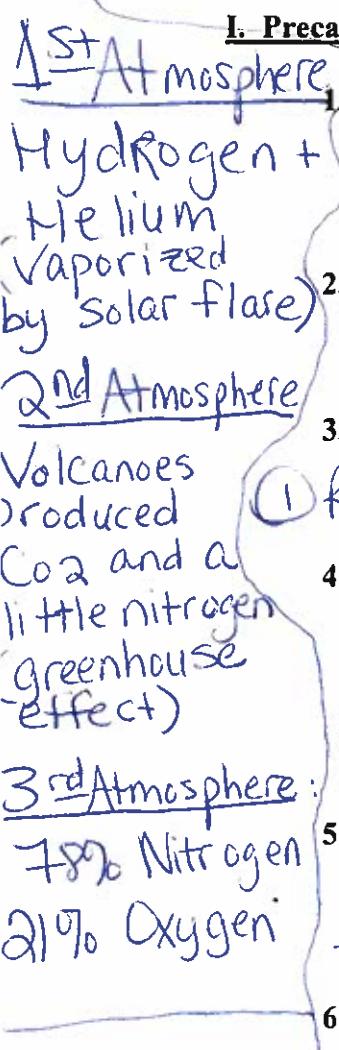


Early Earth History (p. 400 – 406)

I. Precambrian Time



1. Define the term **Precambrian era**.

Precambrian Era –

Longest part of Earth's history
(Includes: Hadean, Archean, + Proterozoic
Eons)

2. What is the time span of the Precambrian Era?

4.5 Billion years – 544 million years ago

3. Why is relatively little known about the Precambrian Era?

① Rocks changed by heat + pressure ② No hard parts

4. Circle the letter of the present-day organism to which the earliest life forms resembled.

- a. bacteria
- b. plants
- c. sponges
- d. worms

5. Define the term **cyanobacteria**.

Cyanobacteria – Blue-green algae thought
to be one of the earliest forms of
life on Earth

6. When did the first forms of life appear on Earth?

3.5 billion years ago

7. Define the term **invertebrates**.

Invertebrates – Animals without backbones

8. List three examples of modern-day invertebrates.

1. Jellyfish 2. Sponges 3. Clams

9. Define the term **Ediacaran fauna**.

Ediacaran Fauna – Bottom dwellers with tough outer
coverings like air mattresses
(similar shapes of jellyfish, worms, + soft corals)

10. What happened to the Ediacaran animals at the end of the Precambrian Era?

Disappeared (Unsure why!)

II. The Paleozoic Era**1. Define the term Paleozoic Era.**

Paleozoic Era - Era of ancient life dominated by sea organisms

2. What is the time span of the Paleozoic Era?

544 million years - 245 million years ago.

3. Warm, shallow seas covered Earth during much of the Paleozoic Era.

Circle One :

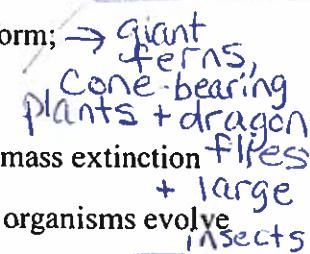
True

False

4. What was the most common life-form that existed during the Paleozoic Era?

Marine Animals (Tribbles, Brachiopods, Crinoids)

5. Match the Paleozoic Period with the correct evolutionary or geologic events. (Page 393.)

- | | | |
|-------------|-----------------|---|
| 1. <u>E</u> | - Cambrian | A. "Age Of Fishes", first land plants evolve; coral reefs form |
| 2. <u>C</u> | - Ordovician | B. First reptiles; coal-forming forest form;  |
| 3. <u>A</u> | - Silurian | C. First jawless fish appear |
| 4. <u>F</u> | - Devonian | D. First cone-bearing plants; massive mass extinction |
| 5. <u>B</u> | - Carboniferous | E. "Age Of Invertebrates"; Great # of organisms evolve |
| 6. <u>D</u> | - Permian | F. First amphibians, insects, and sharks; first swampy forests |

6. Define the term vertebrates.

Vertebrates - Animals with backbones (fish, Amphibians, Reptiles, Birds, Mammals)

7. The Carboniferous Period can be divided into two periods called the :

1. Mississippi 2. Pennsylvania

8. What major mountain range formed during the Paleozoic Era?

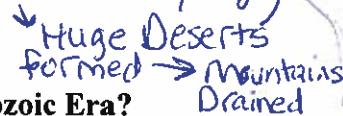
Appalachian Mountains

9. The climate on Earth changed when Pangaea formed.

Circle One :

True

False

(mild/warm \rightarrow cold/dry)

 \downarrow Mountains
 \downarrow Drained Seas

10. What is one theory for the mass extinction at the end of the Paleozoic Era?

① Volcanic/Glaciers ③ Earth climate change
② Species competition as Pangaea formed