

CLADOGRAM ANALYSIS

What is a cladogram? It is a diagram that depicts evolutionary relationships among groups. It is based on **PHYLOGENY**, which is the study of evolutionary relationships. Sometimes a cladogram is called a phylogenetic tree (though technically, there are minor differences between the two).

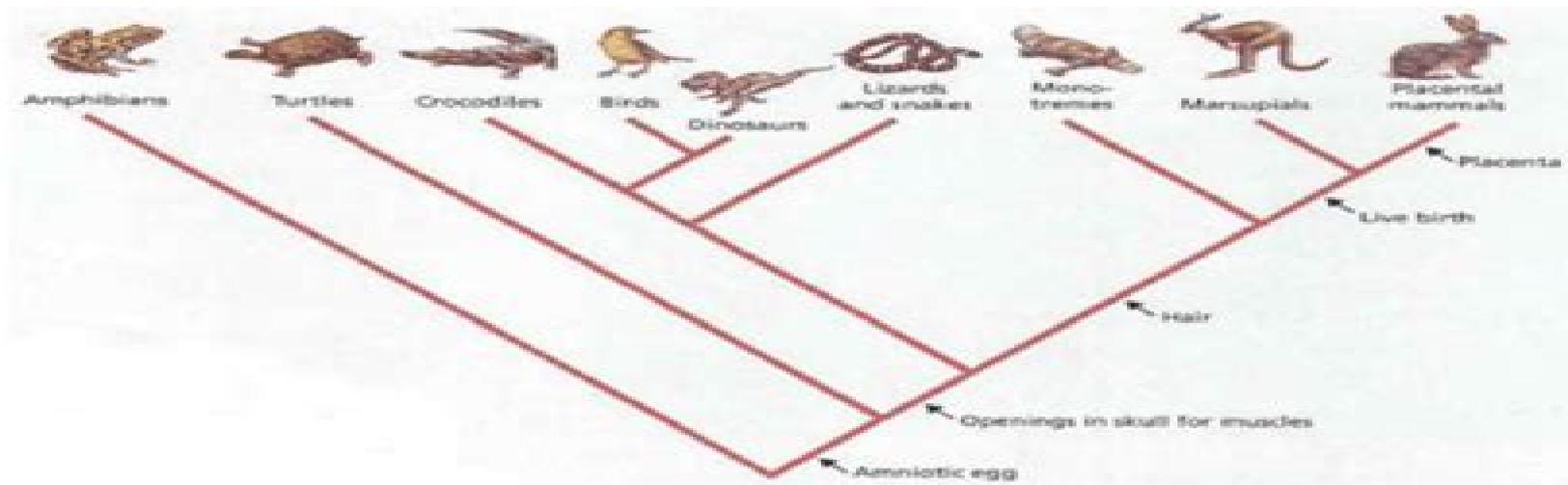
In the past, biologists would group organisms based solely on their physical appearance. Today, with the advances in genetics and biochemistry, biologists can look more closely at individuals to discover their pattern of evolution, and group them accordingly - this strategy is called **EVOLUTIONARY CLASSIFICATION**

CLADISTICS is form of analysis that looks at features of organisms that are considered "innovations", or newer features that serve some kind of purpose. (Think about what the word "innovation" means in regular language.) These characteristics appear in later organisms but not earlier ones and are called **DERIVED CHARACTERS**.

PART I - Analyze the Cladogram

Using the cladogram, decide which animal group have or do not have the derived character.

(A hint to get you started: the **AMPHIBIAN** clade or branch branched off the cladogram, **BEFORE** the character of an **AMNIOTIC EGG**, therefore they **DO NOT** have amniotic eggs)



1. Which animal groups have **AMNIOTIC EGGS**? _____

2. Do turtles have **OPENINGS IN THE SKULL FOR MUSCLES**? _____

Biology Lab Cladogram Answers

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