SECTION 15-2 REVIEW

EVIDENCE OF EVOLUTION

	VOCABULARY REVIEW Explain the relationship between the terms in each of the following pairs of terms.						
1.	homol	homologous structure, analogous structure					
2.	fossil, principle of superposition						
3.	relative age, absolute age						
MU	ILTIPL	E CHOICE Write tl	he correct letter in	the blank.			
1. The wing of a bat and the foreleg of an alligator are							
		a. analogous featureb. homologous feature		c. vestigial featud. artificially sel			
2. Features that were useful to an ancestral organism but are not useful to a organism that inherited them are said to be			t useful to a modern				
		a. analogous.	b. homologous.	c. vestigial.	d. artificially selected.		
	3.	According to the pr sequence	inciple of superposition	ion, the lowest layer in a cross section of a rock			
		a. is the most receb. is the oldest.	nt.	c. has the fewesd. contains only animals.	t fossils. the fossils of burrowing		
	4.	Embryological com	parisons reveal that				
	 a. many vertebrate embryos look similar at early stages of developmen b. embryos of different vertebrates look more similar as development p c. rabbit embryos look like adult fish. d. gorillas begin life as fish and then develop into gorillas during an eml 			elopment proceeds.			
	5.	Fossils are					
		a. remains or trace	es of preexisting organ	isms.			

b. all extinct organisms.

d. from animals but not plants.

 ${f c.}$ deeply buried sedimentary rock strata.

Nam	ne Date
SHO	ORT ANSWER Answer the questions in the space provided.
1.	When trying to determine the evolutionary relationship between two species, would a biologist concentrate on homologous features or analogous features? Explain why.
2.	If an animal has a vestigial structure, what might a biologist infer about the animal's evolutionary history?
3.	How does biogeography contribute to an understanding of evolution?
4.	Explain the evidence that indicates that species evolve over time.

STRUCTURES AND FUNCTIONS Indicate the relative ages of the fossilized organisms listed below by placing them in a strata on the diagram of a cross section of sedimentary rock below.

5. Critical Thinking Why do vestigial structures persist in modern organisms? _____

trilobites, mammal fossils, oldest fossil, youngest fossil, first land plants, first dinosaurs

