Invertebrate Madness			Name	
Chapter 31				
1.	Animals are multicellular without cell walls.			
2.	Eumetazoa can be subdivided into two principal branches based on			
3.	The animal group, Radiata, are, having two embryonic layers.			
4.	The of deuterostomes develop quite differently than those of protostomes.			
5.	In the animal subkingdom,, the animals lack symmetry and possess neither tissues nor organs.			
6.	is a process in which a definite head and brain evolves.			
7.	is the embryonic layer found only in bilaterally symmetrical eumetazoans.			
8.	have a body cavity located between the mesoderm and endoderm.			
9.	In a circulatory system, circulation of blood is more controlled—the blood is moved faster and more efficiently than in other types of circulatory systems.			
10.	Myzostomids have been found to be associated with since the Ordovician.			
11.	Current molecular analysis shows that protostomes should be grouped into clades.			
12.	Nearly all major animal body plans can be seen in aged rocks.			
13.	"Evo-Devo" is a synthesis of evolutionary and developmental biology, studying the expression of genes in developing animal embryos.			
14.	The	evolution of a coelom allows for	16.	Of the following combination of statements about
	A. b	pilateral symmetry to develop		protostomes and deuterostomes, which choice is
	В.	cephalization to occur		correct?
	C.	the development of a larger and longer digestive	A.	Protostomes are animals in which the mouth develops
		tract		from the blastopore. The anus or anal pore of
	D.	the expansion of gonads		protostomes develops from the second opening.
	E.	c and d		Deuterostomes are animals in which the anus develops
15.	Which of the following features in embryonic from			from the blastopore and the mouth develops
	development of deuterostomes does not represent a		secondarily later in their development.	

cell, if separated can develop into a complete organism

revolutionary difference from protostomes?

radial cleavage pattern for cell division

spiral cleavage pattern for cell division

the first cleavage divisions of the fertilized embryo

produce identical daughter cells, and any single

pattern of blastopore formation

Α. В.

C.

the coelom is normally produced by an invagination of the archenteron

- secondarily later in their development.
- В. Protostomes are animals in which the anus develops from the blastopore. The mouth of protostomes develops from the second opening. Deuterostomes are animals in which the anus develops from the blastopore and the mouth develops secondarily later in their development.
- Protostomes are animals in which the mouth develops from the blastopore. The anus or anal pore of protostomes develops from the second opening. Deuterostomes are animals in which the mouth develops from the blastopore and the anus develops secondarily later in their development.
- Protostomes are animals in which the mouth or anus develops from the blastopore, depending on the species. Deuterostomes are animals in which the mouth and anus develops from the blastopore, depending on the species.