INVERTEBRATE ZOOLOGY Practice Exam 2

	1) The first cavity formed du	ring development is th	ie .						
	A) anus	B) blastopore	C) mouth		D) blastocoel				
	The archenteron of the developing embryo eventually develops into the								
					D) blootoood				
	A) digestive tract	B) endoderm	C) mesode	erm	D) blastocoel				
	3) Cephalization, the clustering of neurons in the anterior part of the animal, is apparent in								
	A) Planaria B) Portuguese man-of-war								
	C) Hydra		D) inverteb	D) invertebrate animals with radial symmetry					
	4) Organisms in which a circulating body fluid is distinct from the fluid that directly surrounds the body's cells are likely to have								
	A) an open circulatory	system.							
	B) a closed circulatory	system.							
	C) gills.								
	D) hemolymph.								
	E) a gastrovascular ca	vity.							
The fol	lowing questions refer to the p	paragraph below.							
An elementary school science teacher decided to liven up the classroom with a salt-water aquarium. Knowing that salt-water aquaria can be quite a hassle, the teacher proceeded stepwise. First, she conditioned the water. Next, she decided to stock the tank with various marine invertebrates, including a polychaete, a siliceous sponge, several bivalves, a shrimp, several sea anemones of different types, a colonial hydra, a few coral species, a sea star, and several gastropod varieties. Lastly, some vertebrates—a parrotfish and a clownfish—were added. She arranged for daily feedings of copepods and feeder fish. 5) One day, Tommy (a student in an under-supervised class of 40 fifth graders) was showing-off that he could pet Nemo, the clownfish that was swimming among the waving petals of a pretty underwater "flower" that had a big hole in the middle of the petals. Tommy giggled upon finding that these petals were sticky feeling. A few hours									
	later, Tommy was in the r	nurse's office with nau	sea and cramps. Micros	scopic examina	tion of his fingers would				
	probably have revealed the	ne presence of							
	A) teeth marks.	B) a radula.	C) spicules.	D) spines.	E) nematocysts.				
6) The teacher was unaware of the difference between suspension feeding and predation. The teacher thought that providing live copepods (2 mm long) and feeder fish (2 cm long) would satisfy the dietary needs of all of the organisms. Consequently, which two organisms would have been among the first to starve to death (assuming they lack photosynthetic endosymbionts)? A) sponges and corals B) bivalves and sponges C) shrimp and bivalves D) sea stars and sponges									
	7) The bivalves started to di alive, the teacher would had been an			nained. To keep	o the remaining bilvalves				

carefully, and the elated when Tom	unfortunate creature newny (now recovered) notice original colony. The teastage. of generations. ge. tage.	ver even got to produced a small colonial h	onial hydrozoan died. They ce offspring by budding. Ye ydrozoan growing in a part I a miracle, was apparently	t, everyone was of the tank far from	
			uish a gastropod from a ch	iton?	
A) production of eggs			B) number of shell plates		
C) presence of	a muscular foot	D)	presence of a rasp-like fee	aing structure	
10) Which characteri	stic is shared by cnidaria	ns and flatworms?			
Which characteristic is shared by cnidarians and flatwormsA) a distinct head			B) a digestive system with a single opening		
C) dorsoventrally flattened bodies			D) radial symmetry		
	common ancestor of all a				
A) cyanobacte		,	B) multicellular fungus		
C) flagellated p	orotist	D)	multicellular algae		
following? I. hypertonic II. hypotonic	water around them, fresl	hwater invertebrates a	are <i>correctly</i> described as w	which of the	
III. isotonic	D) II only	C) III only	D) Land III only		
A) I only	B) II only	C) III only	D) I and III only	E) II and III only	
13) Compared to the	seawater around them, i	most marine invertehr	ates are		
	ic and isoosmotic		hyperosmotic		
C) isoosmotic			hypoosmotic		
	unknown animal species otostome and not a deute		development, how can you	be sure what you are	
A) The animal	is clearly bilaterally symr	netrical. B)	You see a mouth, but not a	n anus.	
C) There is evi	dence of cephalization.	D)	The animal is triploblastic.		
A) allowed ase B) was a more C) contributed	ly selective advantage of exual and sexual reprodu efficient digestive syster to a hydrostatic skeleton halization and the forma	ction n , allowing greater ran	ge of motion		

Answer Key Testname: PEXAM2

- 1) D 2) A 3) A 4) B 5) E 6) B 7) C 8) D 9) B 10) B 11) C 12) A 13) C 14) B 15) C