**Biology 112 Animal Phyla Take-Home Test**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ June 2019

*Guidelines:*

You may use your notes from class and the textbook to help you complete this test. You must complete this test entirely on your own. Answers must be written in complete sentences.

This is not a group assignment, and you cannot consult with other students or look for answers online.

Students collaborating and submitting exactly the same responses to questions will both receive a mark of 0.

Please sign below to acknowledge that you have read and understand the guidelines, and that you are submitting work that is entirely your own.

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**DUE DATE: THURSDAY, JUNE 6, 3:15 p.m.**

1. a) Describe, in detail, the passage of food through an earthworm. Include the terms *pharynx*, *esophagus*, *crop*, *gizzard*, *intestine*, and *anus*. *(value 5)*

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b) Predict the effect on an earthworm if its gizzard were not functioning properly.

*(value 2)*

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1. Develop a hypothesis to explain why terrestrial animals cannot be sessile like some marine animals. In your answer, be sure to include at least 4 of the essential functions carried out by all animals. *(value 5)*

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1. Compare and contrast *sexual* and *asexual* reproduction in sponges. *(value 4)*

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1. What characteristics of phylum *Cnidaria* are most important in distinguishing it from other phyla? Include a description Cnidarian symmetry, body plan, and feeding in your answer. *(value 6)*

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1. Compare and contrast *endothermic* versus *ectothermic* animals, and provide examples of each. *(value 4)*

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1. How do the three germ layers form, and what does each germ layer give rise to in the adult organism? *(value 4)*

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1. Describe an animal with bilateral symmetry. In your description, use the terms *anterior*, *posterior*, *dorsal*, and *ventral*. *(value 4)*

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1. What is *cephalization*, and what advantages does it provide an animal? *(value 2)*

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1. Describe the circulation of blood through an adult amphibian. Include the chambers of the heart in your description. *(value 4)*

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