

# Biology 2<sup>nd</sup> Semester Final

## Multiple Choice

Write the letter that best answers the question or completes the statement. (1pt each)

- \_\_\_\_\_ 1. Organisms that must obtain nutrients and energy by eating other organisms are  
a. multicellular. c. heterotrophic.  
b. autotrophic. d. eukaryotic.
- \_\_\_\_\_ 2. A student looks at a slice of tissue on an unlabeled microscope slide. The student concludes the tissue is not from an animal because the cells in the tissue have  
a. membrane-bound organelles. c. cell membranes.  
b. nuclei. d. cell walls.
- \_\_\_\_\_ 3. In chordates in which pharyngeal pouches develop slits that lead outside of the body, the adult most likely uses what type of organ(s) to breathe?  
a. gills c. skin  
b. lungs d. nose
- \_\_\_\_\_ 4. Nerves branch in intervals from which of the following structures in a chordate embryo?  
a. tail c. notochord  
b. pharyngeal pouches d. hollow nerve cord
- \_\_\_\_\_ 5. The notochord is responsible for which function in an embryo?  
a. processing wastes c. respiration  
b. structural support d. processing nerve signals
- \_\_\_\_\_ 6. Which chordate characteristic is visible on the outside of an adult cat?  
a. notochord c. pharyngeal pouches  
b. hollow nerve cord d. a tail that extends beyond the anus
- \_\_\_\_\_ 7. All animals eat to obtain  
a. oxygen. c. carbon dioxide.  
b. ammonia. d. nutrients.
- \_\_\_\_\_ 8. Muscles work together with a support structure called a  
a. segment. c. blastopore.  
b. skeleton. d. coelom.
- \_\_\_\_\_ 9. Animals have an excretory system that eliminates all wastes except  
a. oxygen. c. ammonia.  
b. carbon dioxide. d. nutrients.
- \_\_\_\_\_ 10. To maintain homeostasis, land animals that hunt and feed in salt water  
a. drink salt water.  
b. have adaptations that let them get rid of excess salt.  
c. choose to eat animals that are not very salty.  
d. drink less water to limit salt intake.
- \_\_\_\_\_ 11. Which of the following represents a neural circuit that would be involved in the response to a stimulus?  
a. sensory cell → interneuron → sensory neuron → motor neuron → muscle  
b. sensory cell → motor neuron → interneuron → sensory neuron → muscle  
c. sensory cell → sensory neuron → interneuron → motor neuron → muscle  
d. sensory cell → motor neuron → interneuron → sensory neuron → muscle

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