

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

## Multiple Choice

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

- \_\_\_\_\_ 1. Organisms that must obtain nutrients and energy by eating other organisms are

  - a. multicellular.
  - b. autotrophic.
  - c. heterotrophic.
  - 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.
  - b. nuclei.
  - c. cell membranes.
  - 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
  - b. lungs
  - c. skin
  - d. nose
- \_\_\_\_\_ 4. Nerves branch in intervals from which of the following structures in a chordate embryo?

  - a. tail
  - b. pharyngeal pouches
  - c. notochord
  - d. hollow nerve cord
- \_\_\_\_\_ 5. The notochord is responsible for which function in an embryo?

  - a. processing wastes
  - b. structural support
  - c. respiration
  - d. processing nerve signals
- \_\_\_\_\_ 6. Which chordate characteristic is visible on the outside of an adult cat?

  - a. notochord
  - b. hollow nerve cord
  - c. pharyngeal pouches
  - d. a tail that extends beyond the anus
- \_\_\_\_\_ 7. All animals eat to obtain

  - a. oxygen.
  - b. ammonia.
  - c. carbon dioxide.
  - d. nutrients.
- \_\_\_\_\_ 8. Muscles work together with a support structure called a

  - a. segment.
  - b. skeleton.
  - c. blastopore.
  - d. coelom.
- \_\_\_\_\_ 9. Animals have an excretory system that eliminates all wastes except

  - a. oxygen.
  - b. carbon dioxide.
  - c. ammonia.
  - 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

# 2nd Semester Biology Final Exam

**Oscar Krisen Buros**

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a disciplinary hearing is basically an enquiry held by the employer to determine whether an employee is guilty of an offence or not a poor work performance hearing is similar but the

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web following is the equation which can be used for the shear force calculation shear force  $w_a l$  here  $w$  is a the applied load on beam  $a$  is the distance between the pivot point and point of force application 400  $l$  is the total length of the beam 440 for  $w_0$  shear force  $w_a l 0 400 440 0$  n

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web figure 1 bending moment in a beam experiment introduction this guide describes how to set up and perform bending moment in a beam experiments it clearly demonstrates the principles involved and gives practical support to your studies description figure 1 shows the bending moment in a beam experiment it consists of a beam which is

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