

ANSWER KEY LABORATORY

Session 1

1. Which of the following activities does NOT represent an anatomical study:

- a. making a section through the heart to observe its interior
- b. examining the surface of a bone
- c. viewing muscle tissue through a microscope
- d. studying how the nerves conduct electrical impulses
- e. observing the parts of a reproducing cell

Answer: B Anatomy is defined as the study of the structures of the body. Option B focuses on how the nerve conduction occurs, which refers to the physiology.

2. Which of the following components of the control system is responsible for detecting any change and motor the value of variables?

- a. Control Center
- b. Stimulus
- c. Effector
- d. Receptor

Answer: D Most negative feedback mechanisms have three components in control system: (1) A receptor monitors the value of variables such as body temperature, by detecting stimuli; (2) a control center, such as part of the brain, determines the set point for the variable and receives input from the receptor about the variable; and (3) an effector, such as sweat glands, can change the value of the variable when directed by the control center. A changed variable is a stimulus because it initiates a homeostatic mechanism.

3. All are considered negative feedback mechanism, except:

- a. Body temperature regulation
- b. Uterine contractions during delivery
- c. Increase in blood pressure
- d. Doing exercises

e. Answer: B Near the end of pregnancy, the uterus is stretched by the baby's large size. This stretching, especially around the opening of the uterus, stimulates contractions of

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C Cleary

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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