ANSWER KEY LABORATORY

Session 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:
- Body temperature regulation
- 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

<u>Laboratory Investigations Anatomy And Physiology</u> <u>Answers</u>

Lingjun Ying

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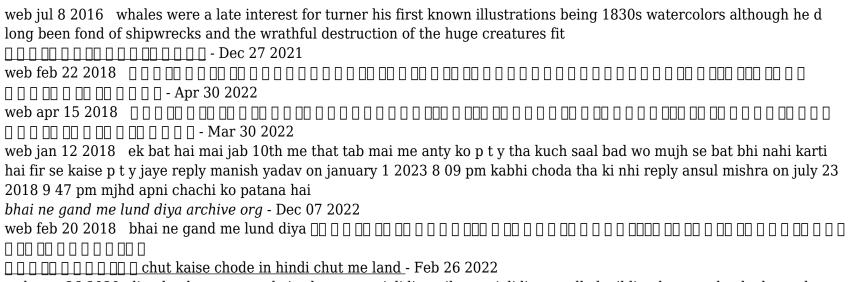
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