

Name \_\_\_\_\_

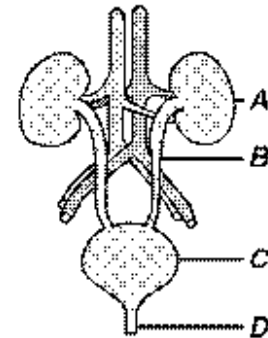
Class \_\_\_\_\_

Date \_\_\_\_\_

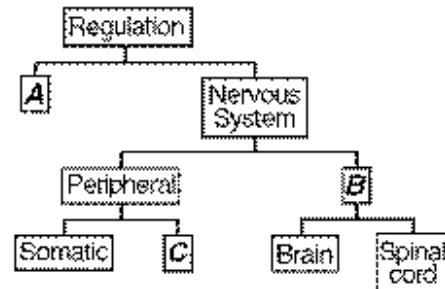
Midterm Review 4

- 1) Which substances produced in the body are directly responsible for the rejection of a transplanted organ?
  - 1) histamines
  - 2) antibodies
  - 3) excretions
  - 4) antigens
- 2) Which response usually occurs after an individual receives a vaccination for influenza virus?
  - 1) Enzymes released from platelets hydrolyze the virus.
  - 2) Antigens from the vaccine deactivate the virus.
  - 3) Hormones in the blood inhibit reproduction of the virus.
  - 4) Antibodies against the virus form in the blood.
- 3) In humans, what happens when the breathing rate increases?
  - 1) Additional oxygen will diffuse into the blood as carbon dioxide diffuses out of the blood in the lungs.
  - 2) Increased oxygen dissolved in the blood will stimulate the cerebrum to slow the breathing rate.
  - 3) Oxygen from body cells will diffuse more rapidly into red blood cells.
  - 4) Additional carbon dioxide will diffuse into the blood as oxygen diffuses out of the blood in the lungs.
- 4) Which sequence represents the direction of flow of carbon dioxide as it passes out of the respiratory system into the external environment?
  - 1) alveoli → pharynx → trachea → bronchioles → bronchi → nasal cavity
  - 2) alveoli → trachea → bronchioles → bronchi → pharynx → nasal cavity
  - 3) alveoli → bronchi → pharynx → bronchioles → trachea → nasal cavity
  - 4) alveoli → bronchioles → bronchi → trachea → pharynx → nasal cavity

- 5) In the diagram of the human urinary system below, which letter indicates a structure responsible for filtering urea out of the bloodstream?



- 1) A
  - 2) B
  - 3) C
  - 4) D
- 6) Which statement most completely describes the the function of regulation in humans?
    - 1) The circulatory system transports hormones to various glands, stimulating their activity.
    - 2) The large intestine stores undigested materials before they are eliminated from the body.
    - 3) The nervous and endocrine systems work together to maintain homeostasis.
    - 4) The nervous system sends impulses to coordinate all body systems.
  - 7) The diagram below represents the two systems involved in regulation.



Which system is represented by the box labeled A?

- 1) endocrine
  - 2) circulatory
  - 3) muscular
  - 4) respiratory
- 8) Which substance causes fatigue when it accumulates in human muscles?
    - 1) adenosine triphosphate
    - 2) carbon dioxide
    - 3) excess oxygen
    - 4) lactic acid