

Chapter 40: Intro to animal structure and function

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 - b. nervous tissue.
 - c. connective tissue.
 - d. epithelial tissue.
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2. Homeostasis is
 - a. exchange of materials with the surrounding environment.
 - b. the idea that all vertebrates are built in a similar way.
 - c. the correlation of structure and function.
 - d. maintaining a relatively constant internal environment.
 - e. cooperation of body parts to form tissues, organs, and systems.

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Chapter 49 (part 1): Movement and Locomotion

1. Which of the following animals is correctly matched with its type of skeleton?
 - a. fly-endoskeleton
 - b. earthworm-exoskeleton
 - c. dog-exoskeleton
 - d. lobster-exoskeleton
 - e. bee-hydrostatic skeleton

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2. Which of the following drugs would cause muscle spasms or cramps (uncontrolled contractions)? A drug that
 - a. blocks the release of calcium ions from endoplasmic reticulum.
 - b. prevents the release of acetylcholine from motor neurons.
 - c. blocks neurotransmitter receptors on muscle fiber membranes.
 - d. blocks the enzyme that breaks down acetylcholine after contraction.
 - e. prevents attachment of myosin heads to thin filaments.

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Chapter 41: Nutrition

1. The cardiac sphincter surrounds the cardiac orifice. If this sphincter failed to properly constrict, there might be a problem with
 - a. regurgitation of food into the esophagus.
 - b. the loss of control of defecation.
 - c. movement of the bolus into the trachea rather than the esophagus.
 - d. rapid emptying from the stomach to the small intestine.
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 - e. All would be equally difficulty to digest.

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Chapter 42: Circulation and Respiration

1. A recording of the electrical activity of a patient's heart shows that the atria are contracting regularly and normally, but every few beats the ventricles fail to contract. Which of the following is probably functioning improperly?
- AV node
 - semilunar valve
 - coronary artery
 - pacemaker
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2. In the blood, bicarbonate ions
 - a. help transport oxygen.
 - b. act as buffers to guard against pH changes.
 - c. are transported by hemoglobin.
 - d. attach to numerous carbon dioxide molecules, keeping them from solution.
 - e. are poisonous and must constantly be removed.

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Chapter 43: Immune System

1. A group of researchers have tested many chemicals and found several that have potential for use in modifying the action of the immune system. Which of the following would seem to have the most promise as a drug for inhibiting transplant rejection?

- a. Compound A13: acts like histamine
- b. Compound Q6: stimulates cytotoxic T cells
- c. Compound N98: a potent allergen
- d. Compound B55: suppresses specific cytotoxic T cells
- e. Compound M31: stimulates helper T cells

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2. When you are immune to a disease,
 - a. antibodies against the disease are constantly circulating in your blood.
 - b. certain lymphocytes are able to make the proper antibodies quickly.
 - c. your nonspecific defenses are strengthened.
 - d. B cells are stimulated to quickly engulf invaders.
 - e. antigens are altered so invaders can no longer attack your tissues.

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Chapter 44: Thermo & Osmoregulation

1. On a cold day, blood vessels in the skin
 - a. dilate, allowing blood to keep the skin warm.
 - b. constrict, forcing blood to flow through vessels in the skin.
 - c. constrict, reducing heat loss from blood at the surface.
 - d. dilate, causing blood to pass through the cold skin more quickly.
 - e. dilate, preventing blood flow to the surface.

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2. In each nephron of the kidney, the glomerulus and Bowman's capsule
 - a. filter the blood and capture the filtrate.
 - b. reabsorb water into the blood.
 - c. break down harmful toxins and poisons.
 - d. reabsorb salts and nutrients.
 - e. refine and concentrate the urine for excretion.

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EXTRA CREDIT

Which of the following activities would initiate an osmoregulatory adjustment brought about primarily through the renin-angiotensin-aldosterone system?

- 1) eating a pizza with green olives and pepperoni
- 2) drinking several glasses of water
- 3) not drinking any fluids for a day or two
- 4) spending several hours mowing the lawn on a hot day
- 5) eating a bag of potato chips