(森泉, 16点)

正しいものを選んで、そのアルファベットを〇で囲みなさい。

- (1) (a: Tendons b: Ligaments) connect bones to other bones at joints.
- (2) The loss of (a: white blood cells b: platelets) will prevent proper blood clotting.
- (3) (a: Smooth b: Cardiac) muscle cells have striations.
- (4) (a: Basal cell carcinoma b: Melanoma) is extremely serious.
- (5) (a: Tight b: Gap) junctions allow materials to pass from cell to cell.
- (6) (a: Endocrine b: Exocrine) glands secrete directly into the blood.
- (7) The (a: thoracic b: abdominal) cavity contains the heart and lungs.
- (8) The (a: respiratory b: urinary) system exchanges gases at lungs.
- (9) The (a: skeletal b: muscular) system produces heat.
- (10) (a: Negative b: Positive) feedback allows rapid change in one direction.

氏名		ie	Large systemic vein that returns blood from body areas below the diaphragm.	Rhythmic expansion and recoil of arteries resulting from heart	ķ.	capillaries to a vein.	That part of the cardiovascular system that serves body parts and does not	lungs.	is to the blood vessel in the key.
5009年 ヒト生物学 本試(大橋、16点) 学籍番号	[I] Match the key terms to these definitions.	Relaxation of a heart chamber.	Large systemic vein that ref	Rhythmic expansion and rec	contraction; can be felt from outside the body.	Vessel that takes blood from capillaries to a vein.	That part of the cardiovascu	include the gas-exchanging surfaces in the lungs.	[II] In questions 1-5, match the descriptions to the blood vessel in the key.
2009年 ヒト4	[I] Match	ë	ف	ij	cont	j.	9	incl	enb uI [II]

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Answers may be used more than once.

c. capillaries e. arterioles b. veins a. venules d. arteries Key:

- 1. Drain blood from capillaries
- 2. May contain valves
- 3. Take blood away from the heart
- 4. Sites for exchange of substances between blood and tissue fluid
- 5. Rate of blood flow is the slowest
- [III] In questions 1-5, match the most suitable description
 - 1. During ventricular diastole,
- a. blood flows into the aorta.
 - b. the ventricles contract.
- c. the semilunar valves are closed.
- d. Both a and b are correct.
- 2. When the atria contract, the blood flows
- a. into the attached blood vessels.
- b. into the ventricles.
- c. through the atrioventricular valves.
- d. to the lungs.
- e. Both b and c are correct.
- 3. Heart valves located at the bases of the pulmonary trunk and aorta are called a. atrioventricular valves.
 - b. semilunar valves.
- c. mitral valves.
- d. chordae tendineae.
- Which of these associations is mismatched?
- a. left ventricle—aorta
- c. right atrium-vena cava

b. right ventricle—pulmonary trunk

- d. left atrium-pulmonary artery
- 5. Which statement is not correct concerning the heartbeat? e. Both b and c are incorrectly matched.
 - a. The atria contract at the same time.
- b. The ventricles relax at the same time.
- c. The AV valves open at the same time.
- d. The semilunar valves open at the same time.
- e. First the right side contracts; then the left side contracts.