



LAB 4 POST-LAB ACTIVITY

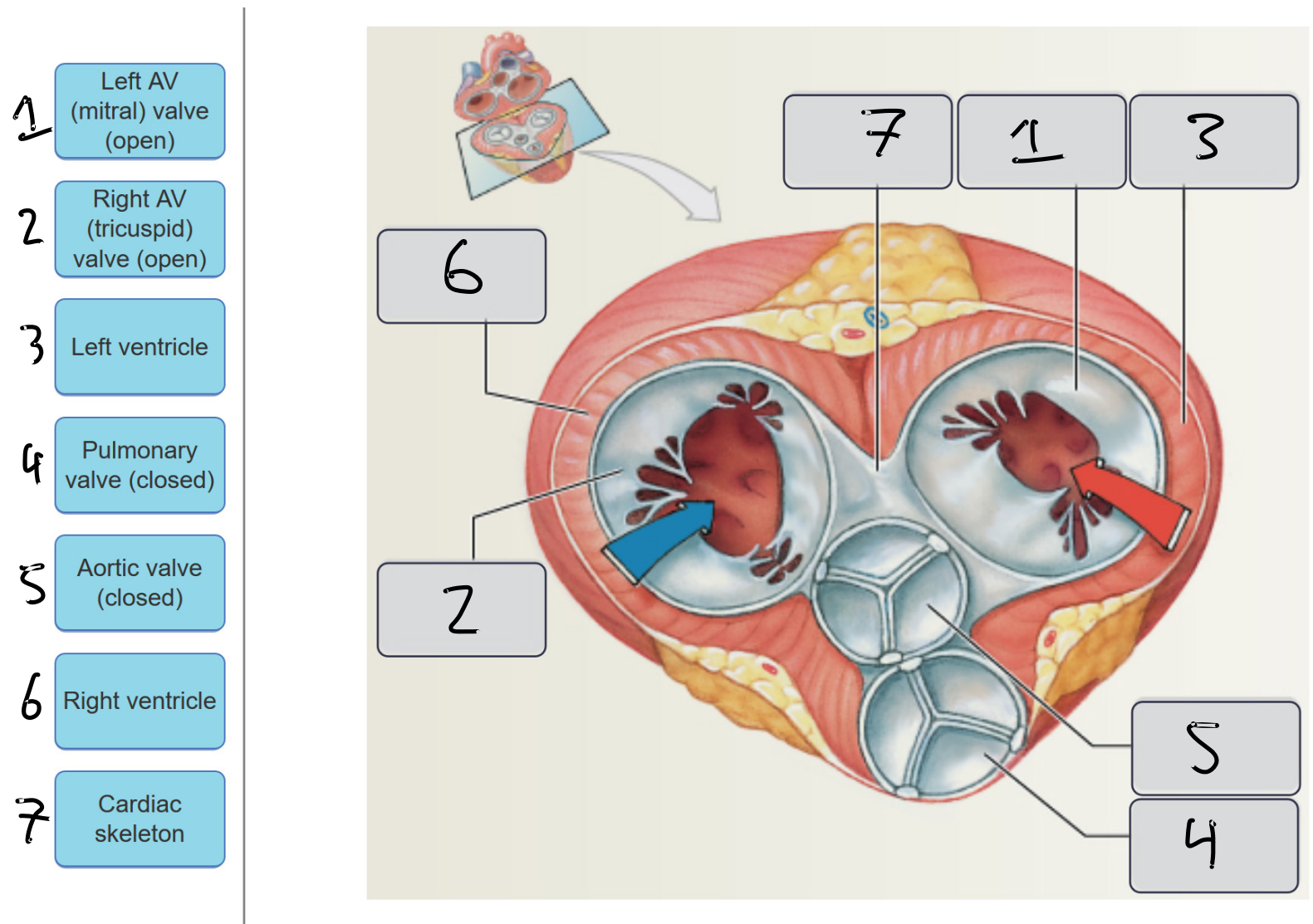
Please complete the assigned activities *after* your assigned lab and submit for a grade.

Name: [REDACTED]

Brock ID: [REDACTED]

Lab #: [REDACTED]

1. Label the following diagram.





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- ■ ■ 2. Using available resources, finish labeling the diagram with the correct sequence of the heart conduction system.

B

Depolarization spreads across the atrial surfaces.

A

The SA node depolarizes and atrial activation begins.

D

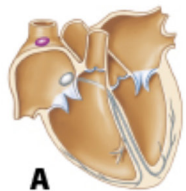
Impulses travel along the AV bundle and the moderator band.

C

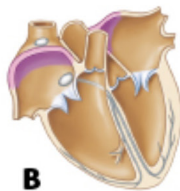
The atria contract. The AV node delays the spread of electrical activity to the ventricles.

E

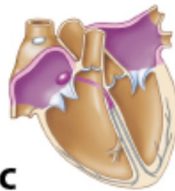
Impulses are distributed by the Purkinje fibers and relayed throughout the ventricles. Ventricular contraction begins.



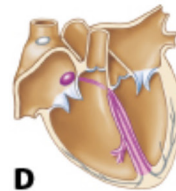
A



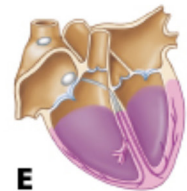
B



C

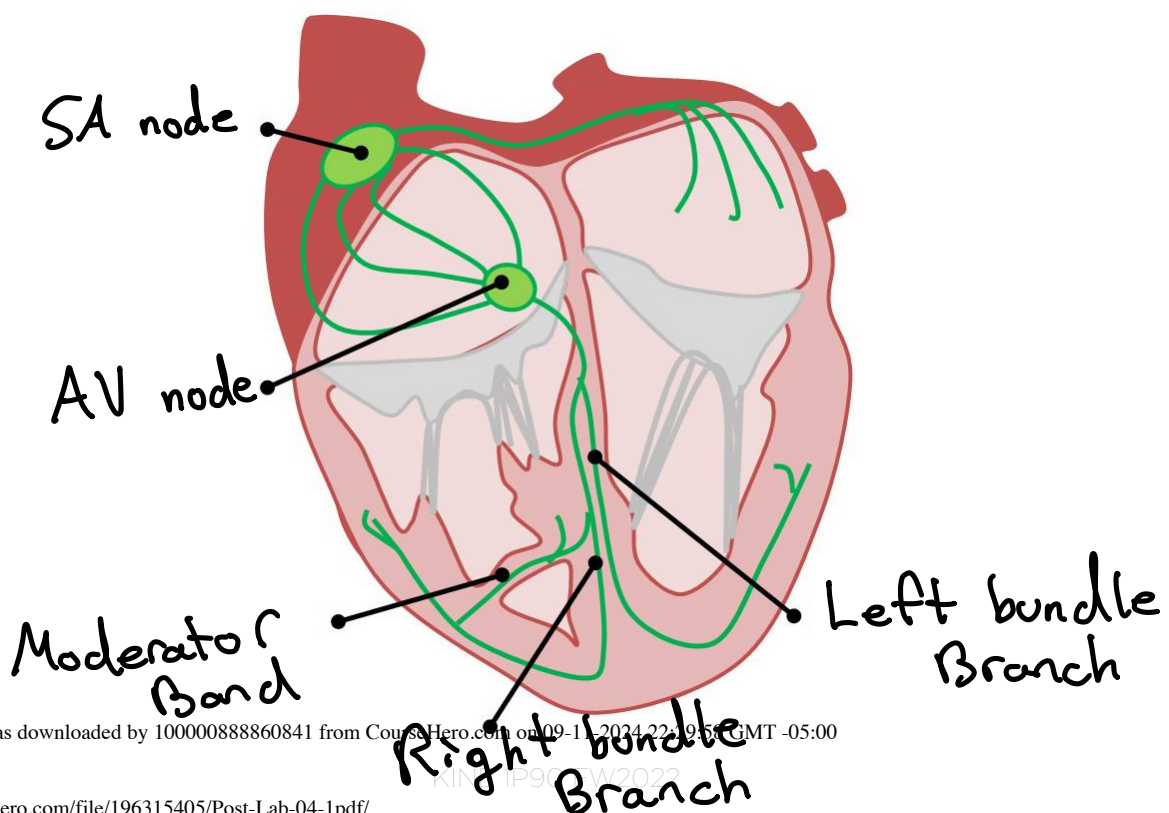


D



E

- ■ ■ 3. Label the following diagram of the heart's conduction system





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4. Which of the heart's chambers is responsible for sending blood to the lungs to pick up oxygen?

- a. the right ventricle
- b. the right atrium
- c. the left atrium
- d. the left ventricle



5. In what way does cardiac muscle differ from skeletal muscle?

- a. Cardiac muscle has less circulatory support because it is not used to walk or run.
- b. Skeletal muscle is striated, whereas cardiac muscle is not.
- c. Cardiac muscle relies heavily on aerobic respiration, whereas skeletal muscle can function for a time in anaerobic conditions.
- d. Cardiac muscle fibers are much longer than skeletal muscle fibers and wrap around the entire heart.



6. A blockage in the pulmonary trunk would first affect which heart chamber with a buildup of blood?

- a. left ventricle
- b. right atrium
- c. right ventricle
- d. left atrium



7. Oxygenated blood returns to the heart from the lungs and enters the _____.

- a. left ventricle
- b. left atrium
- c. right atrium