

# BIOLOGY

## TRANSPORT SYSTEM

- What prevent the backflow of blood in heart.  
a. Septa      b. Valves      c. Arteries      d. Veins
- Which of the following organisms have single circulation?  
a. Fishes      b. Mammals      c. Birds      d. Reptiles
- In humans, right auricle receives \_\_\_\_\_ blood from \_\_\_\_\_  
a. Oxygenated, aorta      b. Deoxygenated, vena cava  
c. Oxygenated, vena cava      d. Deoxygenated, aorta
- Where does the maximum exchange of material between blood and surrounding cells occur?  
a. Heart      b. Veins      c. Arteries      d. Capillaries
- Oxygenated blood is pumped from heart to rest of the body via:  
a. Aorta      b. Pulmonary      c. Pulmonary vein      d. Vena cava
- During Phase 2 of the cardiac cycle, which of the following events are occurring?  
a. Atria relax (diastole) while the ventricles contract (systole); AV valves are closed while the semilunar valves are open.  
b. Atria contract (systole) while the ventricles relax (diastole); AV valves are open while the semilunar valves are closed.  
c. Blood moves from the right ventricle into the pulmonary trunk, while blood moves from the left ventricle into the aorta  
d. both a and c are correct
- An average heartbeat, or cardiac cycle, lasts approximately:  
a. 8.0 seconds      b. 80 seconds      c. 0.80 seconds      d. 0.008 seconds
- During Phase 1 of the cardiac cycle, which of the following events are occurring?  
a. Atria relax (diastole) while the ventricles contract (systole); AV valves are closed while the semilunar valves are open.  
b. Atria contract (systole) while the ventricles relax (diastole); AV valves are open while the semilunar valves are closed  
c. Atria and ventricles are relaxed (diastole); AV valves are open while the semilunar valves are closed.  
d. both a and c are correct
- During Phase 3 of the cardiac cycle, which of the following events are occurring?  
a. Blood enters the right atrium through the vena cavae and the left atrium through the pulmonary veins  
b. Atria contract (systole) while the ventricles relax (diastole); AV valves are open while the semilunar valves are closed  
c. Atria and ventricles are relaxed (diastole); AV valves are open while the semilunar valves are closed.  
d. both a and c are correct
- A heartbeat, or cardiac cycle, is one sequence of contraction and relaxation of the heart chambers. The sequence occurs simultaneously in both sides of the heart. The contraction phase is called  , and the relaxation phase is called  .

