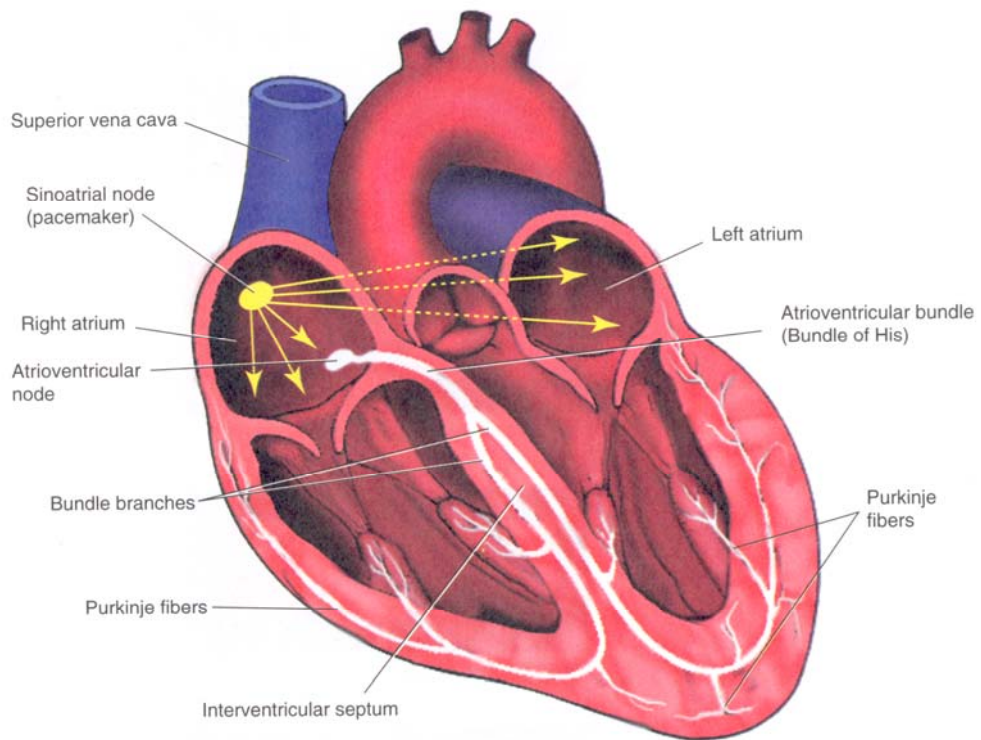


## Self Assessment – Circulatory System (Module E)

- Write the correct medical terminology used to describe:
  - RBC **RED BLOOD CELL COUNT; ERYTHROCYTES**
  - WBC **WHITE BLOOD CELL COUNT; LEUKOCYTES**
  - Platelets **THROMBOCYTES**
- What are the normal values for each of the following?
  - RBC **4 TO 6 MILLION mm<sup>3</sup>**
  - WBC **4,600 TO 10,000 mm<sup>3</sup>**
  - Platelets **150,000 – 400,000 mm<sup>3</sup>**
- Name the three polymorphonuclear granulocytes
  - NEUTROPHILS**
  - EOSINOPHILS**
  - BASOPHILS**
- Define:
  - Leukocytosis: **ELEVATED WHITE BLOOD COUNT**
  - Anemia: **REDUCED LEVEL OF RBC OR HEMOGLOBIN**
  - Thrombocytopenia: **REDUCED LEVEL OF PLATELETS**
- Which WBC is elevated in asthma? **EOSINOPHILS**
- Which WBC is involved in the production of antibodies? **LYMPHOCYTES**
- List the normal values for the following electrolytes:
  - Na<sup>+</sup> **135 – 145 mEq/L**
  - K<sup>+</sup> **3.5 – 4.5 mEq/L**
  - Cl<sup>-</sup> **85 – 100 mEq/L**
  - HCO<sub>3</sub><sup>-</sup> **22 – 26 mEq/L**
- Which heart valve separates the right atrium from the right ventricle?  
**TRICUSPID VALVE**
- Which heart valve separates the left ventricle and aorta? **AORTIC VALVE**

10. Name the 3 branches off the aortic arch.
- INNOMINATE (BRACHIOCEPHALIC) ARTERY**
  - LEFT COMMON CAROTID**
  - LEFT SUBCLAVIAN**
11. Name the two branches of the left coronary artery
- LEFT ANTERIOR DESCENDING**
  - LEFT CIRCUMFLEX**
12. Draw a picture of the conduction system and label the divisions.



13. Which WBC constitutes the largest number in the body? **NEUTROPHILS**
14. What is the primary function of the platelets? **BLOOD COAGULATION**
15. What is the primary function of the RBC? **TRANSPORT OF OXYGEN ATTACHED TO HEMOGLOBIN**

16. What is the primary function of the WBC? **To protect the body against invasion of bacteria and other foreign agents.**
17. Blood minus the cells is called **PLASMA**
18. Plasma minus the protein clotting factors is called **SERUM**.
19. Name the two A-V valves in the heart? **BICUSPID (MITRAL) & TRICUSPID.**
20. The A-V valves are prevented from inversion during ventricular contraction by fibers that attach from the valves to the papillary muscles. These fibers are called **CHORDAE TENDINAE**.
21. The right pulmonary artery carries
  - A. Oxygenated blood
  - B. **Deoxygenated blood**
22. The SA node is innervated with nerve fibers from the
  - A. Sympathetic nervous system.
  - B. Parasympathetic nervous systems.
  - C. **Both sympathetic and parasympathetic nervous systems.**
23. How does sympathetic stimulation affect heart function?  
**INCREASES RATE AND FORCE OF CONTRACTION. ALSO INCREASES VASCULAR RESISTANCE, WHICH REDUCES CARDIAC OUTPUT.**
24. How does parasympathetic stimulation affect heart function?  
**DECREASES HEART RATE AND FORCE OF CONTRACTION. ALSO DECREASES VASCULAR RESISTANCE.**