

## Biology 12 - Circulation Study Guide

1. What are the **three types of blood vessels** in the circulatory system? What are the functions of each?
2. How are veins **similar** to arteries? How are they **different**?
3. How are **arterioles** related to **blood pressure**?
4. Make a sketch of a capillary bed that shows arteries, arterioles, veins, venules, and capillaries.
5. **Give the function** for each of the following **blood vessels**: Use the diagram in your text on p. 235 and find each of this blood vessels on the picture.
  - a. subclavian arteries and veins
  - b. jugular veins
  - c. carotid arteries
  - d. mesenteric arteries
  - e. anterior and posterior vena cava
  - f. pulmonary veins and arteries
  - g. hepatic vein
  - h. hepatic portal vein
  - i. renal arteries and veins
  - j. iliac arteries and veins
  - k. coronary arteries and veins
  - l. aorta
6. Draw a **labelled sketch** of the heart that shows the following:
  - a. left and right atria
  - b. left and right ventricles
  - c. septum
  - d. aortic and pulmonary semilunar valves
  - e. tricuspid and bicuspid valves
  - f. aorta
  - g. inferior & superior vena cava
  - h. chordae tendinae
  - i. pulmonary artery
  - j. pulmonary arteries and veins
  - k. SA Node
  - l. AV Node
  - m. Purkinje fibres
7. The heart is described often as a "**double pump**." Explain **why** this is so and where these two pumps pump to.
8. What is the difference in structure and function between the **atrioventricular** valves and the **semilunar** valves. **Relate the structure of the mitral valve to its function**.
9. **Trace the path of a blood cell** from the **aorta** through the body and back to the **left ventricle**. List all the circulatory structures, in the correct order that the blood cell would pass through.
10. Describe **functions of the SA node, AV node, and Purkinje fibres**. Why is the heartbeat described as being "**intrinsic**"? Why is the SA node called the "**pacemaker**" node?
11. Using such words as **systole** and **diastole**, describe the events that happen in the cardiac cycle for a person whose heart is beating at 70 beats per minute.
12. What is an **ECG** and what is it used for? Make a **labelled sketch** of a normal ECG.
13. Explain how the **brain** controls the **rate** of the heartbeat. Be sure to specifically mention the exact part of the brain is involved. What **factors** determine whether the sympathetic or parasympathetic system is activated?
14. Look very carefully at the graph on p. 233. **Compare and contrast blood pressure, blood velocity, and total cross-sectional area** for arteries, capillaries, and veins.
15. What **causes** blood to flow in **arteries**? What causes blood to flow in **veins**?
16. What is the **pulmonary circuit**? List the structures through which blood flows in the pulmonary circuit.
17. What is the **systemic circuit**? List the structures through which blood flows in the systemic circuit.
18. **Normal blood pressure is 120/80**. Explain in **detail** what these two numbers mean. What is the name of the **instrument** that measures blood pressure? Would it be possible to have a blood pressure of 80/120? Why or why not?
19. What are **hypertension** and **hypotension**? List at least 3 factors or lifestyle habits that are thought to be associated with hypertension. Why is hypertension called the "**silent killer**"?
20. Describe the characteristics and causes of **atherosclerosis**.
21. Differentiate between a **heart attack** and a **stroke**. How is diet related to these killers?
22. Describe in detail the 4 structural differences between the **fetal circulatory system** and the **adult circulatory system**. Make a sketch of these 4 structures in the fetal circulatory system.

# Biology 12 Circulation Study Guide Answers Raycroft

**Castle Rock Research Corp**



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## **Biology 12 Circulation Study Guide Answers Raycroft** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Biology 12 Circulation Study Guide Answers Raycroft**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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