

## 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

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## **Table of Contents Biology 12 Circulation Study Guide Answers Raycroft**

1. Understanding the eBook Biology 12 Circulation Study Guide Answers Raycroft
  - The Rise of Digital Reading Biology 12 Circulation Study Guide Answers Raycroft
  - Advantages of eBooks Over Traditional Books
2. Identifying Biology 12 Circulation Study Guide Answers Raycroft
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Biology 12 Circulation Study Guide Answers Raycroft
  - User-Friendly Interface
4. Exploring eBook Recommendations from Biology 12 Circulation Study Guide Answers Raycroft
  - Personalized Recommendations
  - Biology 12 Circulation Study Guide Answers Raycroft User Reviews and Ratings

- Biology 12 Circulation Study Guide Answers Raycroft and Bestseller Lists
- 5. Accessing Biology 12 Circulation Study Guide Answers Raycroft Free and Paid eBooks
  - Biology 12 Circulation Study Guide Answers Raycroft Public Domain eBooks
  - Biology 12 Circulation Study Guide Answers Raycroft eBook Subscription Services
  - Biology 12 Circulation Study Guide Answers Raycroft Budget-Friendly Options
- 6. Navigating Biology 12 Circulation Study Guide Answers Raycroft eBook Formats
  - ePub, PDF, MOBI, and More
  - Biology 12 Circulation Study Guide Answers Raycroft Compatibility with Devices
  - Biology 12 Circulation Study Guide Answers Raycroft Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Biology 12 Circulation Study Guide Answers Raycroft
  - Highlighting and Note-Taking Biology 12 Circulation Study Guide Answers Raycroft
  - Interactive Elements Biology 12 Circulation Study Guide Answers Raycroft
- 8. Staying Engaged with Biology 12 Circulation Study Guide Answers Raycroft
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Biology 12 Circulation Study Guide Answers Raycroft
- 9. Balancing eBooks and Physical Books Biology 12 Circulation Study Guide Answers Raycroft
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Biology 12 Circulation Study Guide Answers Raycroft
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Biology 12 Circulation Study Guide Answers Raycroft
  - Setting Reading Goals Biology 12 Circulation Study Guide Answers Raycroft
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology 12 Circulation Study Guide Answers Raycroft
  - Fact-Checking eBook Content of Biology 12 Circulation Study Guide Answers Raycroft
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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