

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	g. hepatic vein
b. jugular veins	h. hepatic portal vein
c. carotid arteries	i. renal arteries and veins
d. mesenteric arteries	j. iliac arteries and veins
e. anterior and posterior vena cava	k. coronary arteries and veins
f. pulmonary veins and arteries	l. aorta
6. Draw a labelled sketch of the heart that shows the following:

a. left and right atria	h. chordae tendinae
b. left and right ventricles	i. pulmonary artery
c. septum	j. pulmonary arteries and veins
d. aortic and pulmonary semilunar valves	k. SA Node
e. tricuspid and bicuspid valves	l. AV Node
f. aorta	m. Purkinje fibres
g. inferior & superior vena cava	
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 Answer

Charles Dickens

Biology 12 Circulation Study Guide Answer:

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Table of Contents Biology 12 Circulation Study Guide Answer

1. Understanding the eBook Biology 12 Circulation Study Guide Answer
 - The Rise of Digital Reading Biology 12 Circulation Study Guide Answer
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology 12 Circulation Study Guide Answer
 - 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 Answer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology 12 Circulation Study Guide Answer
 - Personalized Recommendations
 - Biology 12 Circulation Study Guide Answer User Reviews and Ratings
 - Biology 12 Circulation Study Guide Answer and Bestseller Lists

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