

Module 8 Study Guide (chapter 12)

Name _____

1. Define each of the following key terms - baroreceptors, tachycardia, bradycardia, collateral circulation, diastole, systole, murmur, pulse, blood pressure, systolic pressure, diastolic pressure
2. Define each of the following key terms - cardiac output, stroke volume, peripheral resistance, electrocardiogram, echocardiogram, angiography, troponin, cholesterol, atherosclerosis, arteriosclerosis, arrhythmia, cardiac anomaly.
3. What is blood pressure? What is the role of the sympathetic nervous system, the pituitary gland, and the adrenal gland in the control of BP? See page 238-39
Blood pressure is the pressure of blood against the walls of the arteries of the body. It is dependent upon cardiac output (the amount of blood that is ejected by a ventricle in one minute) and peripheral resistance (the amount of resistance that blood meets as it is being pumped out of the heart into the vessels). The sympathetic nervous system helps to regulate this by stimulating vasoconstriction to increase blood pressure or by not stimulating this vasoconstriction which results in vasodilation and lowering of blood pressure. The pituitary also plays a role because it secretes more or less ADH to increase or decrease blood volume. The adrenal gland also secretes aldosterone, another hormone that can increase or decrease blood volume. And the kidneys also play a part in the control of BP because of their renin-angiotensin system. So multiple systems work together to control blood pressure by adjusting the amount of bloodflow and the resistance to that blood flow.
4. Identify 7 factors which will increase heart rate.
Fever, high environmental temperatures, exertion, smoking, stress response, pregnancy, pain
5. Trace the path of a RBC through the heart.
Right atrium, through the tricuspid valve, into the right ventricle, through the pulmonary valve, into the lungs for gas exchange, into the left atrium, through the mitral valve, into the left ventricle, through the aortic valve, into systemic circulation.
6. Identify ten risk factors for developing atherosclerosis. Indicate which ones are modifiable and which ones are not. Note that these are the same risk factors for heart disease.
Age- cannot be changed
Gender- cannot be changed
Genetic or familial factors- Cannot be changed
Obesity- Modifiable
Cigarette smoking- Modifiable
Sedentary Lifestyle- Modifiable
Diabetes mellitus- Modifiable

General Science Module 8 Study Guide Answers

Yi-Tong Ma



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Table of Contents General Science Module 8 Study Guide Answers

1. Understanding the eBook General Science Module 8 Study Guide Answers
 - The Rise of Digital Reading General Science Module 8 Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying General Science Module 8 Study Guide Answers
 - 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 General Science Module 8 Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from General Science Module 8 Study Guide Answers
 - Personalized Recommendations
 - General Science Module 8 Study Guide Answers User Reviews and Ratings
 - General Science Module 8 Study Guide Answers and Bestseller Lists
5. Accessing General Science Module 8 Study Guide Answers Free and Paid eBooks
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- General Science Module 8 Study Guide Answers Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - General Science Module 8 Study Guide Answers Compatibility with Devices
 - General Science Module 8 Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of General Science Module 8 Study Guide Answers
 - Highlighting and Note-Taking General Science Module 8 Study Guide Answers
 - Interactive Elements General Science Module 8 Study Guide Answers
- 8. Staying Engaged with General Science Module 8 Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers General Science Module 8 Study Guide Answers
- 9. Balancing eBooks and Physical Books General Science Module 8 Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection General Science Module 8 Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine General Science Module 8 Study Guide Answers
 - Setting Reading Goals General Science Module 8 Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of General Science Module 8 Study Guide Answers
 - Fact-Checking eBook Content of General Science Module 8 Study Guide Answers
 - 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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7 in the aortic and 5 10 in the mitral position 1 4 among patients with pvl approximately 3 require treatment because of
congestive heart failure or hemolytic anemia 5 8