

Exercise 5

Cardiovascular Dynamics

Name _____

Lab Time/Date _____

Activity 1: Studying the Effect of Blood Vessel Radius on Blood Flow Rate

1. Explain how the body establishes a pressure gradient for blood flow. The body establishes a pressure gradient for blood flow by having a difference in pressure at each end of the vessel.
2. Explain how effect that the flow rate within a single vessel on flow rate. Flow rate will increase, regardless of vessel length, as the pressure gradient will increase. The relationship is proportional.
3. Describe how, although total radius changes, flow is not the same. Flow is not the same because flow is a function of the blood vessel's radius, length, and viscosity.
4. Why do you think the plot shows an inverse relationship? (Think about the relationship of the variables in the equation.) Flow rate will increase with pressure gradient. The radius was measured consistently, but the flow rate varied. The graph shows a curve, a proportional relationship between flow rate and radius.

Activity 2: Studying the Effects of Blood Viscosity on Blood Flow Rate

1. Describe the components in the blood that affect viscosity. Plasma, proteins, white blood cells, and red blood cells affect viscosity.
2. Explain how effect that the viscosity changes had on flow rate. Flow rate will increase, regardless of vessel length, pressure gradient, and a decreased blood flow rate, as the radius is fixed. A proportional relationship is shown between flow rate and viscosity.
3. Describe the graph of flow versus viscosity. Experimental showed that viscosity and flow are proportional.
4. Discuss the effect that polypharmacological agents have on the body and peripheral flow. Polypharmacology is an increase in the red blood cells. This results from a decrease in viscosity resulting in a decrease in blood flow.

Activity 3: Studying the Effect of Blood Vessel Length on Blood Flow Rate

1. What is the relationship between a change in blood vessel length on a change in blood vessel length? Relationship will change in blood vessel length. The relationship is inverse. This will be a curve showing an inverse relationship between flow rate and length.

Physioex 9 Exercise 4 Review Sheet Answers

Puja Mehta



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Table of Contents Physioex 9 Exercise 4 Review Sheet Answers

1. Understanding the eBook Physioex 9 Exercise 4 Review Sheet Answers
 - The Rise of Digital Reading Physioex 9 Exercise 4 Review Sheet Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Physioex 9 Exercise 4 Review Sheet 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 Physioex 9 Exercise 4 Review Sheet Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physioex 9 Exercise 4 Review Sheet Answers
 - Personalized Recommendations
 - Physioex 9 Exercise 4 Review Sheet Answers User Reviews and Ratings
 - Physioex 9 Exercise 4 Review Sheet Answers and Bestseller Lists
5. Accessing Physioex 9 Exercise 4 Review Sheet Answers Free and Paid eBooks
 - Physioex 9 Exercise 4 Review Sheet Answers Public Domain eBooks
 - Physioex 9 Exercise 4 Review Sheet Answers eBook Subscription Services

- Physioex 9 Exercise 4 Review Sheet Answers Budget-Friendly Options
- 6. Navigating Physioex 9 Exercise 4 Review Sheet Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Physioex 9 Exercise 4 Review Sheet Answers Compatibility with Devices
 - Physioex 9 Exercise 4 Review Sheet Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physioex 9 Exercise 4 Review Sheet Answers
 - Highlighting and Note-Taking Physioex 9 Exercise 4 Review Sheet Answers
 - Interactive Elements Physioex 9 Exercise 4 Review Sheet Answers
- 8. Staying Engaged with Physioex 9 Exercise 4 Review Sheet Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physioex 9 Exercise 4 Review Sheet Answers
- 9. Balancing eBooks and Physical Books Physioex 9 Exercise 4 Review Sheet Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physioex 9 Exercise 4 Review Sheet Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physioex 9 Exercise 4 Review Sheet Answers
 - Setting Reading Goals Physioex 9 Exercise 4 Review Sheet Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physioex 9 Exercise 4 Review Sheet Answers
 - Fact-Checking eBook Content of Physioex 9 Exercise 4 Review Sheet 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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