

6. Figure 11-4 is a diagram of the frontal section of the heart. Follow the instructions below to complete this exercise.

First, draw arrows to indicate the direction of blood flow through the heart. Draw the pathway of the oxygen-rich blood with red arrows, and trace the pathway of oxygen-poor blood with blue arrows.

Second, identify each of the elements of the intrinsic conduction system (numbers 1-5 on the figure) by inserting the appropriate terms in the blanks left of the figure. Then, indicate with green arrows the pathway that impulses take through this system.

Third, correctly identify each of the heart valves (numbers 6-9 on the figure) by inserting the appropriate terms in the blanks left of the figure, and draw in and identify by name the cordlike structures that anchor the flaps of the atrioventricular (AV) valves.

Fourth, use the numbers from the figure to identify the structures described below. Place the numbers in the lettered answer blanks.

- | | | | | |
|----------|----|----------|----|---|
| <u>6</u> | A. | <u>7</u> | B. | Prevent backflow into the ventricles when the heart is relaxed |
| <u>8</u> | C. | <u>9</u> | D. | Prevent backflow into the atria when the ventricles are contracting |
| <u>9</u> | E. | | | AV valve with three flaps |
| <u>8</u> | F. | | | AV valve with two flaps |
| <u>1</u> | G. | | | The pacemaker of the intrinsic conduction system |
| <u>2</u> | H. | | | The point in the intrinsic conduction system where the impulse is temporarily delayed |

Figure 11-4



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ASPAN, Lois Schick, Pamela E Windle



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Adopting the Beat of Expression: An Mental Symphony within **Anatomy And Physiology Workbook Cardiovascular System**

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Table of Contents Anatomy And Physiology Workbook Cardiovascular System

1. Understanding the eBook Anatomy And Physiology Workbook Cardiovascular System
 - The Rise of Digital Reading Anatomy And Physiology Workbook Cardiovascular System
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Workbook Cardiovascular System
 - 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 Anatomy And Physiology Workbook Cardiovascular System
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Workbook Cardiovascular System

- Personalized Recommendations
 - Anatomy And Physiology Workbook Cardiovascular System User Reviews and Ratings
 - Anatomy And Physiology Workbook Cardiovascular System and Bestseller Lists
5. Accessing Anatomy And Physiology Workbook Cardiovascular System Free and Paid eBooks
 - Anatomy And Physiology Workbook Cardiovascular System Public Domain eBooks
 - Anatomy And Physiology Workbook Cardiovascular System eBook Subscription Services
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 - Anatomy And Physiology Workbook Cardiovascular System Enhanced eBook Features
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 - Highlighting and Note-Taking Anatomy And Physiology Workbook Cardiovascular System
 - Interactive Elements Anatomy And Physiology Workbook Cardiovascular System
 8. Staying Engaged with Anatomy And Physiology Workbook Cardiovascular System
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy And Physiology Workbook Cardiovascular System
 9. Balancing eBooks and Physical Books Anatomy And Physiology Workbook Cardiovascular System
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy And Physiology Workbook Cardiovascular System
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Anatomy And Physiology Workbook Cardiovascular System
 - Setting Reading Goals Anatomy And Physiology Workbook Cardiovascular System
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Anatomy And Physiology Workbook Cardiovascular System

- Fact-Checking eBook Content of Anatomy And Physiology Workbook Cardiovascular System
- 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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