

2. The heart is called a double pump because it serves two circulations. Trace the flow of blood through the pulmonary and systemic circulations by writing the missing terms in the answer blanks. Then, color regions transporting O₂-poor blood blue and regions transporting O₂-rich blood red on Figure 11-1. Finally, identify the various regions of the circulation shown in Figure 11-1 by labeling them using the key choices.

Right ventricle 1
 Pulmonary valve
 Pulmonary arteries

- _____ 4.
- _____ 5.
- _____ 6.
- _____ 7.
- _____ 8.
- _____ 9.
- _____ 10.
- _____ 11.
- _____ 12.
- _____ 13.

Key Choices

- A. Vessels serving head and upper limbs
- B. Vessels serving body trunk and lower limbs
- C. Vessels serving the viscera
- D. Pulmonary circulation
- E. Pulmonary "pump"
- F. Systemic "pump"

From the right atrium through the tricuspid valve to the _____ (11) through the _____ (12) valve to the pulmonary trunk to the right and left _____ (13) to the capillary beds of the _____ (14) to the _____ (15) of the heart through the _____ (16) valve, to the _____ (17) through the _____ (18) semilunar valve, to the _____ (19) to the systemic arteries, to the _____ (20) of the body tissues, to the systemic veins, to the _____ (21) and _____ (22) which enter the right atrium of the heart.

Figure 11-1



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Barbara Herlihy



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 - The Rise of Digital Reading Anatomy And Physiology Coloring Workbook Blood Answer Key
 - Advantages of eBooks Over Traditional Books
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 - 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 Coloring Workbook Blood Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Coloring Workbook Blood Answer Key
 - Personalized Recommendations
 - Anatomy And Physiology Coloring Workbook Blood Answer Key User Reviews and Ratings
 - Anatomy And Physiology Coloring Workbook Blood Answer Key and Bestseller Lists
5. Accessing Anatomy And Physiology Coloring Workbook Blood Answer Key Free and Paid eBooks
 - Anatomy And Physiology Coloring Workbook Blood Answer Key Public Domain eBooks
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- 6. Navigating Anatomy And Physiology Coloring Workbook Blood Answer Key eBook Formats
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 - Anatomy And Physiology Coloring Workbook Blood Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anatomy And Physiology Coloring Workbook Blood Answer Key
 - Highlighting and Note-Taking Anatomy And Physiology Coloring Workbook Blood Answer Key
 - Interactive Elements Anatomy And Physiology Coloring Workbook Blood Answer Key
- 8. Staying Engaged with Anatomy And Physiology Coloring Workbook Blood Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anatomy And Physiology Coloring Workbook Blood Answer Key
- 9. Balancing eBooks and Physical Books Anatomy And Physiology Coloring Workbook Blood Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anatomy And Physiology Coloring Workbook Blood Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Anatomy And Physiology Coloring Workbook Blood Answer Key
 - Setting Reading Goals Anatomy And Physiology Coloring Workbook Blood Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Anatomy And Physiology Coloring Workbook Blood Answer Key
 - Fact-Checking eBook Content of Anatomy And Physiology Coloring Workbook Blood Answer Key
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