

ANATOMY AND PHYSIOLOGY
ESSAY QUESTION ANSWERS
100% BEST ANSWERS FOR ESSAY QUESTION

- **Circulatory pathways of blood**

Pulmonary Circulation begins with deoxygenated blood entering the Right atrium to contract and propagate the blood through the (AV) tricuspid valve (during atrial systole). Contraction of the Right Ventricle (during ventricular systole) forces blood through the (semilunar) pulmonary valve and through the pulmonary arteries (1 Left, 1 Right) to travel to the air sacs (alveoli) of the lung. In the lungs, CO₂ and wastes are removed from the blood to pick up O₂ and nutrients. The pulmonary veins (2 Left, 2 Right-- 1 superior, 1 inferior) transport Oxygenated blood to the left atrium.

Systemic Circulation begins at Left Atrium contracts blood (during Atrial systole) through the (AV) Bicuspid/ Mitral Valve into the Left Ventricle. The Left Ventricle contracts blood through the (semilunar) Aortic Valve into the Aorta. Blood divides throughout the Aorta to travel to tissues across the entire body except for the alveoli in the lungs. Blood travels away from the heart in Elastic Arteries which turn into Muscular Arteries, Arterioles, then into capillary networks (allow for oxygen and nutrients to be delivered and carbon dioxide and wastes to be picked up for pulmonary circulation), later joining venules and veins to carry deoxygenated blood back to the right atrium via Superior or Inferior Vena Cava.

Coronary Circulation arises from the ascending aorta and encircles the heart with blood flow from 2 coronary arteries (1 Left & 1 Right) to supply oxygenated blood to the myocardium. The left coronary Artery passes inferior to the left auricle and divides into the anterior interventricular and circumflex branches. The Left anterior descending (LAD) is the anterior interventricular sulcus and supplies blood to both ventricles. The circumflex branch lies in the coronary sulcus; distributes blood to the walls of the left Ventricle and Atrium. The Right Coronary Artery supplies small branches to the Right Atrium and divides into the Posterior Interventricular branch and marginal branch. The Posterior Interventricular branch supplies the two ventricles with oxygenated blood, and the marginal branch transports oxygenated blood to the right ventricle. Most of the Deoxygenated blood drains from the myocardium into the Vascular Sinus (posterior surface of the heart) called the Coronary Sinus. The Deoxygenated blood in the coronary sinus empties into the right atrium to travel in the Pulmonary Circulation.

Fetal Circulation only exists in fetal life. The Right Atrium pushes oxygenated blood through the Foramen Ovale where most of the blood travels from the Right Atrium to the Left Atrium. The Left Atrium pumps blood into the Left Ventricle, into the Aorta. The blood that does travel to the Right Ventricle travels through the pulmonary trunk, and through the Ductus Arteriosus which carries blood into the Aorta for Oxygenated blood to travel the systemic circulation.

Umbilical Arteries (2 Arteries) carry Deoxygenated blood to the placenta to receive nutrients and oxygen. **Umbilical Vein (1 Vein)** carries oxygenated blood to the liver through the hepatic portal vein and through the Ductus Venosus which carries oxygenated blood to the inferior vena cava. The Placenta provides the fetus with nutrients and oxygen, meaning pulmonary circulation is not involved during fetal circulation. Postnatal circulation, the Foramen Ovale closes, becoming the Fossa Ovalis; the Ductus Venosus becomes the Ligamentum Venosum; the Ductus Arteriosus

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Kevin T. Patton



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Table of Contents Anatomy And Physiology Short Essay Question Answers

1. Understanding the eBook Anatomy And Physiology Short Essay Question Answers
 - The Rise of Digital Reading Anatomy And Physiology Short Essay Question Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Anatomy And Physiology Short Essay Question 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 Anatomy And Physiology Short Essay Question Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anatomy And Physiology Short Essay Question Answers
 - Personalized Recommendations
 - Anatomy And Physiology Short Essay Question Answers User Reviews and Ratings
 - Anatomy And Physiology Short Essay Question Answers and Bestseller Lists

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