

11 THE CARDIOVASCULAR SYSTEM



The major structures of the cardiovascular system, the heart and blood vessels, play a vital role in human physiology. The major function of the cardiovascular system is transportation. Using blood as the transport vehicle, the system carries nutrients, gases, wastes, antibodies, electrolytes, and many other substances to and from body cells. Its propulsive force is the contracting heart.

The anatomy and location of the heart and blood vessels and the important understandings of cardiovascular physiology (for example, cardiac cycle, ECG, and regulation of blood pressure) are the major topics of this chapter.

THE HEART

Anatomy of the Heart

1. Complete the following statements by inserting your answers in the answer blanks.

1. Thorax
2. Diaphragm
3. Second
4. Aorta
5. Right Atrium
6. Atrium
7. Ventricles
8. Endocardium
9. Epicardium

The heart is a cone-shaped muscular organ located within the (1). Its apex rests on the (2), and its base is at the level of the (3) rib. The coronary arteries that nourish the myocardium arise from the (4). The coronary sinus empties into the (5). Relative to the roles of the heart chambers, the (6) are receiving chambers, whereas the (7) are discharging chambers. The membrane that lines the heart and also forms the valve flaps is called the (8). The outermost layer of the heart is called the (9). The fluid that fills the pericardial sac acts to decrease (10) during heart activity. The heart muscle, or myocardium, is composed of a specialized type of muscle tissue called (11).

10. Friction
11. Cardiac muscle

Blood System Packet Answer

Alice Prendergast



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the level of the cell to the organs themselves we will examine these systems in depth Here you will learn The incredible design of the human heart and how it is really two pumps in one How blood moves through an incredible network of arteries and veins What blood pressure is and the marvelous systems that help regulate it How the respiratory system allows us to get the bad air out and the good air in Along the way we will see what happens when things go wrong We will also suggest things to do to keep the heart and lungs healthy Although the world insists that our bodies are merely the result of time and chance as you examine the human body closely you will see that it cannot be an accident It can only be the product of a Master Designer

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This volume contains the 74 contributed papers and abstracts of 4 of the 5 invited talks presented at the 10th Annual European Symposium on Algorithms ESA 2002 held at the University of Rome La Sapienza Rome Italy 17-21 September 2002. For the first time ESA had two tracks with separate program committees which dealt respectively with the design and mathematical analysis of algorithms, the Design and Analysis track, real world applications, engineering and experimental analysis of algorithms, the Engineering and Applications track. Previous ESAs were held in Bad Honnef Germany 1993, Utrecht The Netherlands 1994, Corfu Greece 1995, Barcelona Spain 1996, Graz Austria 1997, Venice Italy 1998, Prague Czech Republic 1999, Saarbrücken Germany 2000 and Århus Denmark 2001. The predecessor to the Engineering and Applications track of ESA was the Annual Workshop on Algorithm Engineering WAE. Previous WAEs were held in Venice Italy 1997, Saarbrücken Germany 1998, London UK 1999, Saarbrücken Germany 2000 and Århus Denmark 2001. The proceedings of the previous ESAs were published as Springer LNCS volumes 726, 855, 979, 1284, 1461, 1643, 1879 and 2161. The proceedings of WAEs from 1999 onwards were published as Springer LNCS volumes 1668, 1982 and 2161.

Medical Physics and Biomedical Engineering B.H. Brown, R.H. Smallwood, D.C. Barber, P.V. Lawford, D.R. Hose, 1998-01-01. Medical Physics and Biomedical Engineering provides broad coverage appropriate for senior undergraduates and graduates in medical physics and biomedical engineering. Divided into two parts, the first part presents the underlying physics, electronics, anatomy and physiology, and the second part addresses practical applications. The structured approach means that later chapters build and broaden the material introduced in the opening chapters; for example, students can read chapters covering the introductory

science of an area and then study the practical application of the topic Coverage includes biomechanics ionizing and nonionizing radiation and measurements image formation techniques processing and analysis safety issues biomedical devices mathematical and statistical techniques physiological signals and responses and respiratory and cardiovascular function and measurement Where necessary the authors provide references to the mathematical background and keep detailed derivations to a minimum They give comprehensive references to junior undergraduate texts in physics electronics and life sciences in the bibliographies at the end of each chapter

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hauptsächlich nördlich des polarkreises gelegen hat der weihnachtsmann für seine rentiere die idealen temperaturen minus