The Cardiovascular System

Learning Exercises

Class ___________________  Name ___________________

Matching Word Parts 1
Write the correct answer in the middle column.

Definition  Correct Answer  Possible Answers
5.1. aorta
5.2. artery
5.3. plaque, fatty substance
5.4. relating to blood or lymph vessels
5.5. slow

Matching Word Parts 2
Write the correct answer in the middle column.

Definition  Correct Answer  Possible Answers
5.6. blood or blood condition
5.7. heart
5.8. mixture or blending
5.9. red
5.10. vein

Matching Word Parts 3
Write the correct answer in the middle column.

Definition  Correct Answer  Possible Answers
5.11. white
5.12. vein
5.13. fast, rapid
5.14. clot
5.15. blood, relating to blood
Definitions
Select the correct answer and write it on the line provided.

5.16. The term meaning white blood cells is ________________________________.
      erythrocytes  leukocytes  platelets  thrombocytes

5.17. Commonly known as the natural pacemaker, the medical name of the structure is the ________________________________.
      atrioventricular node  bundle of His  Purkinje fiber  sinoatrial node

5.18. The myocardium receives its blood supply from the ________________________________.
      aorta  coronary arteries  inferior vena cava  superior vena cava

5.19. The ________________________________ are formed in red bone marrow and then migrate to tissues throughout the body. These blood cells destroy parasitic organisms and play a major role in allergic reactions.
      basophils  eosinophils  erythrocytes  monocytes

5.20. The bicuspid heart valve is also known as the ________________________________ valve.
      aortic  mitral  pulmonary  tricuspid

5.21. The ________________________________ pumps blood into the pulmonary artery, which carries it to the lungs.
      left atrium  left ventricle  right atrium  right ventricle

5.22. The ________________________________ are the smallest formed elements in the blood, and they play an important role in blood clotting.
      erythrocytes  leukocytes  monocytes  thrombocytes

5.23. A foreign object, such as a bit of tissue or air, circulating in the blood is known as a/an ________________________________.
      embolism  embolus  thrombosis  thrombus

5.24. The ________________________________ carries blood to all parts of the body except the lungs.
      left atrium  left ventricle  right atrium  right ventricle

5.25. The ________________________________ are the most common type of white blood cell.
      erythrocytes  leukocytes  neutrophils  thrombocytes

Matching Structures
Write the correct answer in the middle column.

<table>
<thead>
<tr>
<th>Definition</th>
<th>Correct Answer</th>
<th>Possible Answers</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.26. a hollow, muscular organ</td>
<td></td>
<td>endocardium</td>
</tr>
<tr>
<td>5.27. cardiac muscle</td>
<td></td>
<td>epicardium</td>
</tr>
<tr>
<td>5.28. external layer of the heart</td>
<td></td>
<td>heart</td>
</tr>
<tr>
<td>5.29. inner lining of the heart</td>
<td></td>
<td>myocardium</td>
</tr>
<tr>
<td>5.30. sac enclosing the heart</td>
<td></td>
<td>pericardium</td>
</tr>
</tbody>
</table>
**Which Word?**
Select the correct answer and write it on the line provided.

5.31. High-density __________________ is also known as good cholesterol.
      lipoprotein cholesterol total cholesterol

5.32. An abnormally slow resting heart rate is described as ________________.
      bradycardia tachycardia

5.33. In ________________ fibrillation, instead of pumping strongly, the heart muscle quivers ineffectively.
      atrial ventricular

5.34. The highest pressure against the blood vessels is ________________ pressure, and it occurs when the ventricles contract.
      diastolic systolic

5.35. The diagnostic procedure that images the structures of the blood vessels and the flow of blood through these vessels is known as ________________.
      digital angiography duplex ultrasound

**Spelling Counts**
Find the misspelled word in each sentence. Then write that word, spelled correctly, on the line provided.

5.36. The autopsy indicated that the cause of death was a ruptured aneurysm. __________________

5.37. A deficiency of blood passing through an organ or body part is known as hypoprefusion.
      __________________

5.38. An arrhythmia is an abnormal heart rhythm in which the heartbeat is faster, or slower than normal.
      __________________

5.39. Raynoud's phenomenon is a condition with symptoms that include of intermittent attacks of pallor, cyanosis, and redness of the fingers and toes. __________________

5.40. An implantable cardioarter defibrillator is a double-action pacemaker. __________________

**Abbreviation Identification**
In the space provided, write the words that each abbreviation stands for.

5.41. CAD __________________
5.42. EKG, ECG __________________
5.43. Ha or HB __________________
5.44. MI __________________
5.45. VF __________________
Term Selection
Select the correct answer and write it on the line provided.

5.46. The systemic condition caused by the spread of microorganisms and their toxins via the circulating blood is known as ___________________.
   dyscrasia  endocarditis  pericarditis  septicemia

5.47. A/An ___________________________ reduces the workload of the heart by slowing the rate of the heartbeat.
   ACE inhibitor  beta-blocker  calcium blocker  statin inhibitor

5.48. The blood disorder characterized by anemia in which the red blood cells are larger than normal is known as ___________________ anemia.
   aplastic  hemolytic  megaloblastic  pernicious

5.49. A/An ___________________________ is administered to lower high blood pressure.
   antiarrhythmic  antihypertensive  digitalis  diuretic

5.50. A bacterial infection of the lining or valves of the heart is known as bacterial ___________________.
   endocarditis  myocarditis  pericarditis  valvulitis

Sentence Completion
Write the correct term on the line provided.

5.51. Plasma with the clotting proteins removed is known as ___________________ .

5.52. Having an abnormally small number of platelets in the circulating blood is known as ___________________ .

5.53. The surgical removal of the lining of a portion of a clogged carotid artery leading to the brain is known as a/an ____________________________ .

5.54. The abnormal protrusion of a heart valve that results in the inability of the valve to close completely is known as a/an ______________________________ .

5.55. The medication ___________________________ is prescribed to prevent or relieve the pain of angina by relaxing the blood vessels to the heart.

Word Surgery
Divide each term into its component word parts. Write these word parts, in sequence, on the lines provided. When necessary use a slash (/) to indicate a combining vowel. (You may not need all of the lines provided.)

5.56. Aneurysmorrhaphy means the surgical suturing a ruptured aneurysm.

5.57. Aplastic anemia is characterized by an absence of all formed blood elements.

5.58. Electrocardiography is the process of recording the electrical activity of the myocardium.
5.59. **Polyarteritis** is a form of angiitis involving several medium and small arteries at the same time.

5.60. **Valvoplasty** is the surgical repair or replacement of a heart valve.

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**True/False**

If the statement is true, write True on the line. If the statement is false, write False on the line.

5.61. ______ A thrombus is a clot or piece of tissue circulating in the blood.

5.62. ______ Hemochromatosis is also known as iron overload disease.

5.63. ______ Plasmapheresis is the removal of whole blood from the body, separation of its cellular elements, and reinfusion of these cellular elements suspended in saline or a plasma substitute.

5.64. ______ A vasoconstrictor is a drug that enlarges the blood vessels.

5.65. ______ Peripheral vascular disease is a disorder of the blood vessels located outside the heart and brain.

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**Clinical Conditions**

Write the correct answer on the line provided.

5.66. Alberta Fleetwood has a/an _____________________. This condition is a benign tumor made up of newly formed blood vessels.

5.67. After his surgery, Ramon Martinez developed a deep vein ____________________ (DVT) in his leg.

5.68. During her pregnancy, Polly Olson suffered from abnormally swollen veins in her legs. The medical term for this condition is ____________________ veins.

5.69. Thomas Wilkerson suffers from episodes of severe chest pain due to inadequate blood flow to the myocardium. This is a condition known as ____________________

5.70. When Mr. Klein stands up too quickly, his blood pressure drops. His physician describes this as postural or ____________________

5.71. Juanita Gomez was diagnosed as having ____________________. This cancerous blood condition was previously known as preleukemia.

5.72. Dr. Lawson read her patient's ____________________. This diagnostic record is also known as an ECG or EKG.

5.73. Jason Turner suffered from cardiac arrest. The paramedics arrived promptly and saved his life by using ____________________ (CPR).

5.74. Darlene Nolan was diagnosed as having a deep vein thrombosis. Her doctor immediately prescribed a/an ____________________ to cause the thrombus to dissolve.

5.75. Hamilton Edwards Sr. suffers from ____________________ heart disease (IHD). This is a group of cardiac disabilities resulting from an insufficient supply of oxygenated blood to the heart.
Which Is the Correct Medical Term?
Select the correct answer and write it on the line provided.

5.76. A/An ____________, which is a characteristic of atherosclerosis, is a deposit of plaque on or within the arterial wall.

angiitis angiostenosis arteriosclerosis atheroma

5.77. The term ____________ means to stop or control bleeding.

hemochromatosis hemostasis plasmapheresis transfusion reaction

5.78. Inflammation of a vein is known as ____________.

angiitis arteritis phlebitis phlebostenosis

5.79. Blood ____________ is any pathologic condition of the cellular elements of the blood.

anemia dyscrasia hemochromatosis septicemia

5.80. The surgical removal of an aneurysm is a/an ____________.

aneurysmectomy aneurysmoplasty aneurysmorraphy aneurysmotomy

Challenge Word Building
These terms are not found in this chapter; however, they are made up of the following familiar word parts. If you need help in creating the term, refer to your medical dictionary.

peri- angi/o -ectomy
arter/o -itis
cardi/o -necrosis
phleb/o -rraphy

5.81. Inflammation of an artery or arteries is known as ____________.

5.82. The surgical removal of a portion of a blood vessel is a/an ____________.

5.83. The abnormal narrowing of the lumen of a vein is known as ____________.

5.84. The surgical removal of a portion of the tissue surrounding the heart is a/an ____________.

5.85. To surgically suture the wall of the heart is a/an ____________.

5.86. Rupture of a vein is known as ____________.

5.87. The suture repair of any vessel, especially a blood vessel, is a/an ____________.

5.88. Rupture of the heart is known as ____________.

5.89. To suture the tissue surrounding the heart is a/an ____________.

5.90. The tissue death of the walls of the blood vessels is known as ____________.
Labeling Exercises
Identify the numbered items in the accompanying figures.
5.91. Superior
5.92. Right
5.93. Right
5.94. Left pulmonary
5.95. Left pulmonary