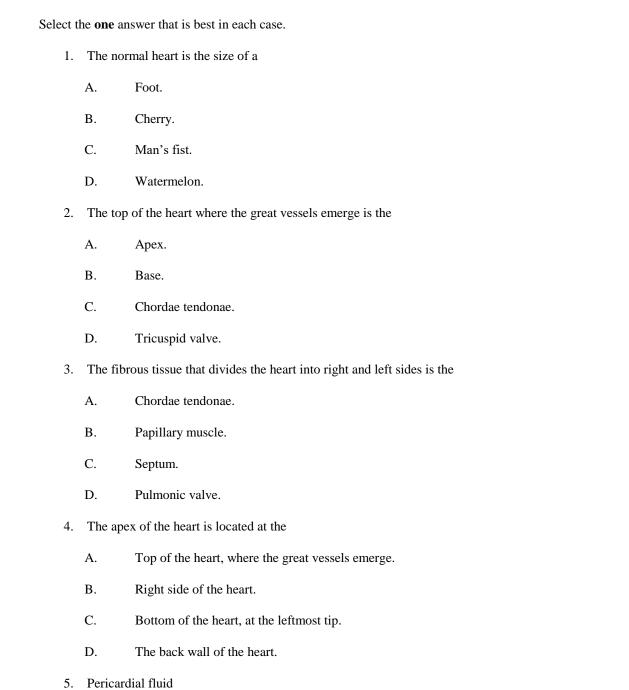
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Test Bank

CHAPTER 1

Multiple Choice Questions

Each of the questions or incomplete statements below is followed by suggested answers or completions.



	A.	Decreases friction of the pericardial layers as they rub against each other.
	B.	Prevents backflow of blood from one chamber to the other.
	C.	Circulates through the heart's chambers.
	D.	Lubricates the electrical system of the heart.
6.	The inn	ermost layer of the heart is the
	A.	Epicardium.
	B.	Pericardium.
	C.	Endocardium.
	D.	Myocardium.
7.	The lay	er of the heart that is damaged during a heart attack is the
	A.	Epicardium.
	B.	Pericardium.
	C.	Endocardium.
	D.	Myocardium.
8.	Which o	of these statements about the pericardium is NOT TRUE?
	A.	It anchors the heart to the diaphragm and great vessels.
	B.	It is a two-layer sac enclosing the heart.
	C.	It serves as protection for the heart.
	D.	It is the wall of the heart that is damaged in a heart attack.
9.	Which o	of the following statements about the right atrium is true?
	A.	It is a receiving chamber for oxygenated blood returning from the lungs.
	B.	It is the major pumping chamber of the heart.
	C.	It is about 100% saturated with oxygen.
	D.	It is the receiving chamber for deoxygenated blood coming from the vena cava.
10.	Which l	neart chamber delivers oxygenated blood to the entire body?
	A.	Right atrium
	B.	Right ventricle
	C.	Left atrium

D.	Left ventricle	
11. The h	1. The heart's valves open and close in response to changes in	
A.	Oxygenation.	
B.	Sodium and potassium concentration.	
C.	Pressure.	
D.	The heart's pacemaker.	
12. Heart	valves serve what purpose?	
A.	They prevent blood from flowing forward.	
B.	They prevent oxygenated blood from flowing through the coronary arteries.	
C.	They prevent backflow of blood.	
D.	They control the heart's electrical signals.	
13. The va	alve that separates the right atrium and right ventricle is the	
A.	Mitral valve.	
B.	Pulmonic valve.	
C.	Aortic valve.	
D.	Tricuspid valve.	
14. The he	eart valve found at the opening of the pulmonary artery is the	
A.	Aortic valve.	
B.	Tricuspid valve.	
C.	Mitral valve.	
D.	Pulmonic valve.	
15. Which of the following are both AV valves?		
A.	Tricuspid and mitral valves	
B.	Aortic and mitral valves	
C.	Mitral and pulmonic valves	
D.	Aortic and pulmonic valves	
16. The fi	rst heart sound (S1) is associated with closure of which heart valves?	

A.

Mitral and aortic

	B.	Tricuspid and pulmonic
	C.	Tricuspid and mitral
	D.	Aortic and pulmonic
17.	The seco	ond heart sound (S2) is associated with closure of which heart valves?
	A.	Mitral and aortic
	B.	Tricuspid and pulmonic
	C.	Tricuspid and mitral
	D.	Aortic and pulmonic
18.	The stru	cture that prevents backflow of blood is the
	A.	Trebeculae carnae.
	B.	Superior vena cava.
	C.	Papillary muscle.
	D.	Valve.
19.	What ca	suses heart sounds?
	A.	Blood traveling through the heart
	B.	Opening of the heart valves
	C.	Closing of the heart valves
	D.	Blood hitting an obstruction in the peripheral circulation
20.	Through	which structure must the blood travel in order to leave the right ventricle?
	A.	Right atrium
	B.	Tricuspid valve
	C.	Left ventricle
	D.	Pulmonic valve
21.	Which v	valves open to allow the ventricles to fill?
	A.	Aortic and pulmonic
	B.	Tricuspid and pulmonic
	C.	Tricuspid and mitral
	D.	Aortic and mitral

22. T	22. The inferior vena cava returns deoxygenated blood to the heart from		
A.	The head and neck.		
В.	The coronary circulation.		
C.	The lower extremities and abdomen.		
D.	None of these—the vena cava carries oxygenated blood.		
23. T	hrough which vessel does oxygenated blood enter the capillaries?		
A.	. Aorta		
В.	Veins		
C.	Venules		
D.	. Arterioles		
24. W	Thich of the following is the correct sequence of blood flow through the peripheral circulation?		
A.	Arteries-veins-vena cava-capillaries		
В.	Arteries-arterioles-capillaries-venules- veins		
C.	Veins-venules-capillaries-arterioles- arteries		
D.	Capillaries-arterioles and venules-arteries and veins		
25. Pt	ulmonary veins deliver blood to the		
A.	Right atrium.		
В.	Left atrium.		
C.	Right ventricle.		
D.	Left ventricle.		
26. The vessel that delivers oxygenated blood to the capillary bed is the			
A.	Artery.		
В.	Vein.		
C.	Arteriole.		
D.	. Venule.		
27. T	he coronary circulation supplies oxygenated blood to the myocardium during		
A.	Ventricular ejection.		
В.	Diastole.		

- C. The entire cardiac cycle.
- D. Isovolumetric contraction.
- 28. The cardiac cycle's two phases are
 - A. Systole and diastole.
 - B. Isovolumetric relaxation and contraction.
 - C. Preload and afterload.
 - D. Atrial kick and ventricular filling.
- 29. The semilunar valves open when the
 - A. Atrial pressure exceeds the ventricular pressure.
 - B. Atrial and ventricular pressures are equal.
 - C. Ventricular pressure exceeds the aortic and pulmonary arterial pressures.
 - D. Impulse arrives at the AV node.
- 30. The parasympathetic nervous system causes
 - A. Slowed digestion.
 - B. Decrease in heart rate.
 - C. Pupillary dilation.
 - D. Increase in blood pressure.

True-False Questions

- 1. T or F. The pericardium is the layer of the heart that is damaged during a heart attack.
- 2. T or F. The heart chamber that has the greatest workload is the right atrium, as it pumps blood out to the entire body.
- 3. T or F. The heart is composed primarily of muscle.
- 4. T or F. The heart has three layers: the endocardium, myocardium, and epicardium.
- 5. T or F. The layer of the heart that does the work of contracting is the endocardium.
- 6. T or F. The pericardium is a double-walled sac that encloses the heart and serves as support and protection.

7. T or F. The right atrium is a thin-walled receiving chamber for newly oxygenated blood from the
lungs.
8. T or F. The left atrium pumps blood into the right atrium.
9. T or F. The heart's top and bottom chambers are separated by valves that prevent backflow of
blood.
10. T or F. The semilunar valves are the aortic and mitral valves.
11. T or F. The job of the heart valves is to prevent backflow of blood.
12. T or F. The vena cava is a large artery that carries blood from the right ventricle to the lungs.
13. T or F. The three main coronary arteries are the aorta, the left main, and the chordae tendonae.
14. T or F. The first phase of diastole is called the atrial kick, and it is the phase during which the atria
fill with blood from the ventricles.
15. T or F. The phase of systole that results in the greatest consumption of myocardial oxygen is
isovolumetric contraction.
Fill-in-the-Blank Questions
1. The function of the heart is to
2. The normal amount of blood circulated by the heart every minute is liters.
3. The is the layer that contains the cardiac conduction system.
4. The fluid found between the layers of the pericardium is called
5. The is the chamber that receives blood from the superior and inferior venae cavae.
6. The term means half-moon.
7. The superior vena cava returns blood to the right atrium from the
8. The coronary artery that feeds blood to the right ventricle and the inferior wall of the left ventricle
is the
9. The coronary artery that feeds blood to the lateral wall of the left ventricle is the
10. The two phases of the cardiac cycle are systole and
CHAPTER 2

СН

Multiple Choice Questions

Each of the questions or incomplete statements below is followed by suggested answers or completions.

Select the **one** answer that is best in each case.

- 1. What electrical event must occur for atrial kick to occur?
 - A. Atrial depolarization
 - B. Ventricular depolarization
 - C. Atrial repolarization
 - D. Ventricular repolarization
- 2. The cardiac cell at rest has what kind of electrical charge?
 - A. Positive charge
 - B. Negative charge
 - C. Neutral charge
 - D. No charge at all
- 3. The EKG is a recording of the
 - A. Heart's mechanical activity.
 - B. Brain's electrical activity.
 - C. Heart's electrical activity.
 - D. Heart's electrical and mechanical activity.
- 4. Depolarization is a(n)
 - A. Electrical event that should result in muscle relaxation.
 - B. Mechanical event that should result in depolarization.
 - C. Electrical event that should result in muscle contraction.
 - D. Mechanical event that should result in repolarization.
- 5. Which of the following is NOT TRUE?
 - A. Cardiac cells can contract without having been depolarized.
 - B. Cardiac cells must be depolarized before they can contract.
 - C. Cardiac contraction occurs as a result of phase 0 of the action potential.
 - D. Cardiac contraction requires the presence of calcium ions.
- 6. Which of the following ions has a direct effect on the strength of cardiac contraction?

	A.	Sodium
	B.	Potassium
	C.	Magnesium
	D.	Calcium
7.	In the ac	ction potential, phase 0 is
	A.	Depolarization.
	B.	Plateau.
	C.	Rapid repolarization.
	D.	Rest.
8.	In the ac	etion potential, phase 3 is
	A.	Depolarization.
	B.	Rapid repolarization.
	C.	Plateau.
	D.	Rest.
9.	Phase 0	of the action potential corresponds with what wave or complex on the EKG?
	A.	T wave
	B.	QRS complex
	C.	U wave
	D.	ST segment
10.	+20 mV	is the
	A.	Resting transmembrane potential.
	B.	Transmembrane potential at the conclusion of phase 3 of the action potential.
	C.	Transmembrane potential at the conclusion of phase 0 of the action potential.
	D.	Transmembrane potential at the beginning of cardiac rest.
11.		Transmembrane potential at the beginning of cardiac rest. of the following correctly describes the relative refractory period?

It is the period in which only a strong impulse can cause another depolarization.

It is the period in which no impulses at all can cause another depolarization.

B.

C.

- D. It is the period in which the heart function stops temporarily to allow impulse transmission to occur.
- 12. The relative refractory period extends from the
 - A. Beginning of the T wave to the beginning of the next QRS complex.
 - B. Beginning of the P wave to the beginning of the QRS complex.
 - C. Beginning of the QRS complex to the upstroke of the T wave.
 - D. Upstroke of the T wave to the end of the T wave.
- 13. The P wave represents
 - A. Atrial depolarization.
 - B. Atrial repolarization.
 - C. Ventricular depolarization.
 - D. Ventricular repolarization.
- 14. The QRS complex represents
 - A. Atrial depolarization.
 - B. Atrial repolarization.
 - C. Ventricular depolarization.
 - D. Ventricular repolarization.
- 15. The T wave represents
 - A. Atrial depolarization.
 - B. Atrial repolarization.
 - C. Ventricular depolarization.
 - D. Ventricular repolarization.
- 16. The PR segment is located between the
 - A. P wave and the QRS complex.
 - B. QRS complex and the T wave.
 - C. T wave and the next P wave.
 - D. P wave and the T wave.
- 17. The ST segment is located between the

A.	P wave and the QRS complex.
В.	QRS complex and the T wave.
C.	T wave and the next P wave.
D.	P wave and the T wave.
18. The n	formal ST segment is
A.	At the isoelectric line.
В.	Elevated above the isoelectric line.
C.	Depressed below the isoelectric line.
D.	Both above and below the isoelectric line.
19. For p	urposes of determining the presence of ST segment changes, the baseline is considered to be
the	
A.	PT segment.
В.	PR segment.
C.	TP segment.
D.	QT segment.
20. The w	vave or complex that represents ventricular repolarization is the
A.	P wave.
В.	QRS complex.
C.	T wave.
D.	U wave.
21. An up	oward deflection of the QRS complex is called a(n)
A.	P wave.
В.	Q wave.
C.	R wave.
D.	T wave.
22. Which	h of these statements about the sinus node is FALSE?
A.	It is the normal pacemaker of the heart.
В.	It has the fastest inherent rate of all the possible pacemaker sites.

	C.	It is the slowest pacemaker of the heart.
	D.	It fires at an inherent rate of 60–100 beats per minute.
2	23. The jol	b of the cardiac conduction system is to
	A.	Propagate electrical impulses.
	B.	Conduct electrical impulses.
	C.	Cause depolarization of myocardial cells.
	D.	All of the above.
2	24. The no	ormal pacemaker of the heart is the
	A.	Sinus node.
	B.	AV node.
	C.	Purkinje fibers.
	D.	Coronary sinus.
2	25. The no	ormal inherent rate of the sinus node as a pacemaker is
	A.	20–40 beats per minute.
	B.	40–60 beats per minute.
	C.	60–80 beats per minute.
	D.	60–100 beats per minute.
2	26. The ve	entricle's inherent rate is
	A.	20–40 beats per minute.
	B.	40–60 beats per minute.
	C.	60–80 beats per minute.
	D.	60–100 beats per minute.
2	27. After the	he sinus node initiates an impulse, where does the impulse go next?
	A.	Interatrial tracts
	B.	Purkinje fibers
	C.	Ventricular tissue
	D.	Bundle branches
2	28. Which	of the following characteristics of heart cells is mechanical?

- A. Automaticity
- B. Contractility
- C. Excitability
- D. Conductivity
- 29. Contractility is the ability of a cardiac cell to
 - A. Initiate an impulse without outside stimulus.
 - B. Pass an impulse along to neighboring cells.
 - C. Respond to a stimulus by depolarizing.
 - D. Contract.
- 30. The PR interval measures the time it takes for the impulse to travel from the
 - A. AV node to the bundle branches.
 - B. Bundle of His to the ventricular myocardium.
 - C. Sinus node to the internodal tracts.
 - D. Atria to the ventricle.

True-False Questions

- 1. T or F. The polarized cardiac cell is electrically negative.
- 2. T or F. The cardiac cell, at rest, has a transmembrane potential of +20 mV.
- 3. T or F. During the absolute refractory period, only a strong stimulus can result in depolarization.
- 4. T or F. Cardiac cell stimulus during the absolute refractory period often results in very fast, dangerous rhythms.
- 5. T or F. The P wave represents atrial depolarization.
- 6. T or F. The PR segment is a flat line located between the QRS complex and the T wave.
- 7. T or F. The baseline is a flat line from which the waves and complexes take off.
- 8. T or F. The normal pacemaker of the heart is the AV node.
- 9. T or F. The normal rate of the sinus node is 60–100 beats per minute.
- 10. T or F. The PR interval measures the time it takes for the impulse to travel from the atrium down to the ventricle.

Fill-in-the-Blank Questions

1.	Atrial depolarization is represented on the EKG as a
2.	Depolarization is the changing of the cardiac cell to an electrically charge.
3.	Transmembrane potential is the electrical charge at the
4.	Refractory meansto.
5.	One small block on the EKG paper measures seconds.
6.	Normal QRS interval is seconds or less than three small blocks.
7.	A negative deflection that occurs before a positive one is labeled a wave.
8.	Normal conduction begins with the pacemaker of the heart, the
9.	The pacemaker with the slowest inherent rate is the
10.	Dysrhythmias are heart rhythms.

Answer Key

CHAPTER 1

Multiple Choice

- 1. C
- 2. B
- 3. C
- 4. C
- 5. A
- 6. C
- 7. D
- 8. D
- 9. D
- 10. D
- 11. C
- 12. C

- 13. D
- 14. D
- 15. A
- 16. C
- 17. D
- 18. D
- 19. C
- 20. D
- 21. C
- 22. C
- 23. D
- 24. B
- 25. B
- 26. C
- 27. B
- 28. A
- 29. C
- 30. B

True-False

- 1. F
- 2. F
- 3. T
- 4. T
- 5. F
- 6. T
- 7. F
- 8. F
- 9. T

15.	T	
Fill-in-the-Blank Questions		
1.	Pump enough blood to meet the body's metabolic needs	
2.	4–8; 4 to 8; Four to eight	
3.	Endocardium	
4.	Pericardial fluid	
5.	Right atrium	
6.	Semilunar	
7.	Head; chest; upper arms	
8.	Right coronary artery	
9.	Circumflex	
10.	diastole	
CHAP	TER 2	
Multiple	e Choice	
1.	A	
2.	В	
3.	C	
4.	C	
5.	A	
6.	D	
7.	A	
8.	В	

10. F

11. T

12. F

13. F

14. F

- 9. B
- 10. C
- 11. B
- 12. D
- 13. A
- 14. C
- 15. D
- 16. A
- 17. B
- 18. A
- 19. B
- 20. C
- 21. C
- 22. C
- 23. D
- 24. A
- 25. D
- 26. A
- 27. A
- 28. B
- 29. D
- 30. D

True-False

- 1. T
- 2. F
- 3. F
- 4. F
- 5. T

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- 6. F7. T
- 8. F
- 9. T
- 10. T

Fill-in-the-Blank Questions

- 1. P wave
- 2. positive
- 3. cell membrane
- 4. Resistant
- 5. 0.04
- 6. < 0.12
- 7. Q
- 8. Sinus node
- 9. Ventricle
- 10. Abnormal