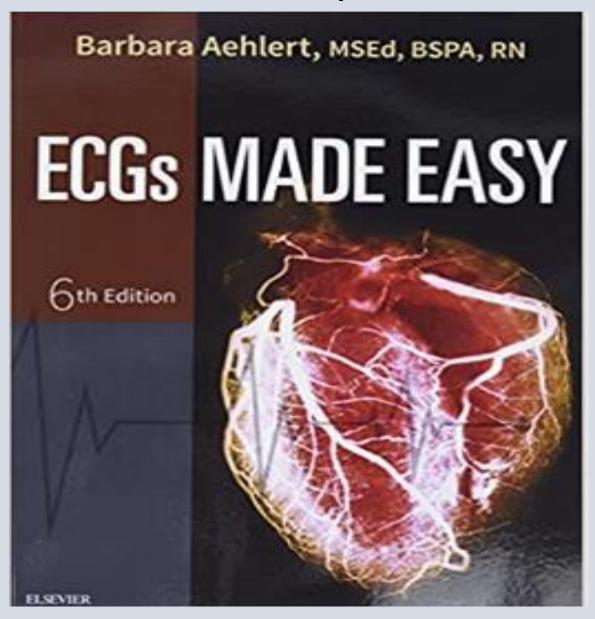
TEST BANK

ECGs MADE EASY

6TH EDITION | AEHLERT



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ECGs Made Easy 6th Edition by Barbara Aehlert Test Bank

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Chapter 01: Anatomy and Physiology Aehlert: ECGs Made Easy, 6th Edition

MULTIPLE CHOICE

1.	The apex of the heart is formed by the a. tip of the left ventricle b. tip of the right atrium c. right atrium and right ventricle d. left atrium and left ventricle
	ANS: A The heart's apex, or lower portion, is formed by the tip of the left ventricle. The apex lies just above the diaphragm, between the fifth and sixth ribs, in the midclavicular line.
	OBJ: Identify the surfaces of the heart.
2.	The left atrium receives blood from the a. pulmonary veins b. aorta c. pulmonary arteries d. inferior vena cava
	ANS: A The left atrium receives freshly oxygenated blood from the lungs via the right and left pulmonary veins.
	OBJ: Identify and describe the chambers of the heart and the vessels that enter or leave each.
3.	The anterior surface of the heart consists primarily of the a. left atrium b. right atrium c. left ventricle d. right ventricle
	ANS: D The front (anterior) surface of the heart lies behind the sternum and costal cartilages. It is formed by portions of the right atrium and the left and right ventricles. However, because the heart is tilted slightly toward the left in the chest, the right ventricle is the area of the heart that lies most directly behind the sternum.
	OBJ: Identify the surfaces of the heart.
4.	Blood pressure is determined by multiplied by a. stroke volume; heart rate b. heart rate; cardiac output c. cardiac output; peripheral vascular resistance d. stroke volume; peripheral vascular resistance
	ANS: C Blood pressure is equal to cardiac output multiplied by peripheral vascular resistance.

OBJ: Identify and explain the components of blood pressure and cardiac output. 5. The right atrium receives venous blood from the head, neck, and thorax via the from the remainder of the body via the , and from the heart via the . a. coronary sinus; superior vena cava; inferior vena cava b. superior vena cava; coronary sinus; inferior vena cava c. inferior vena cava; superior vena cava; coronary sinus d. superior vena cava; inferior vena cava; coronary sinus ANS: D The right atrium receives blood low in oxygen from the superior vena cava, which carries blood from the head and upper extremities; the inferior vena cava, which carries blood from the lower body; and the coronary sinus, which is the largest vein that drains the heart. OBJ: Identify and describe the chambers of the heart and the vessels that enter or leave each. 6. The heart is divided into chambers but functions as a -sided pump. a. two: four b. three; two c. four; two d. four; three ANS: C The heart has four chambers: two atria and two ventricles. The right and left sides of the heart are separated by an internal wall of connective tissue called a *septum*. The interatrial septum separates the right and left atria. The interventricular septum separates the right and left ventricles. The septa separate the heart into two functional pumps. The right atrium and right ventricle make up one pump. The left atrium and left ventricle make up the other. OBJ: Identify and describe the chambers of the heart and the vessels that enter or leave each. 7. Stimulation of alpha1 receptors results in_____. a. increased heart rate b. peripheral vasoconstriction c. constriction of bronchial smooth muscle d. increased force of myocardial contraction ANS: B Alpha1 receptors are found in the eyes, blood vessels, bladder, and male reproductive organs. Stimulation of alpha1 receptor sites results in constriction. OBJ: Compare and contrast the effects of sympathetic and parasympathetic stimulation of the heart. 8. Which side of the heart is a low-pressure system that pumps venous blood to the lungs? a. Left b. Right ANS: B The job of the right side of the heart is to pump unoxygenated blood to and through the lungs

to the left side of the heart. This is called the *pulmonary circulation*. The right side of the heart

is a low-pressure system.

OBJ: Identify and describe the chambers of the heart and the vessels that enter or leave each.

9. Which side of the heart is a high-pressure system that pumps arterial blood to the systemic

	circulation? a. Left b. Right
	ANS: A The left side of the heart is a high-pressure pump. The job of the left heart is to receive oxygenated blood and pump it out to the rest of the body. This is called the <i>systemic circulation</i> . The left ventricle is a high-pressure chamber. Its wall is much thicker than the right ventricle (the right ventricle is 3 to 5 mm thick; the left ventricle is 13 to 15 mm thick). This is because the left ventricle must overcome a lot of pressure and resistance from the arteries and contract forcefully in order to pump blood out to the body.
	OBJ: Identify and describe the chambers of the heart and the vessels that enter or leave each.
10.	The thick, muscular middle layer of the heart wall that contains the atrial and ventricular muscle fibers necessary for contraction is the a. epicardium b. pericardium c. myocardium d. endocardium
	ANS: C The myocardium (middle layer) is a thick, muscular layer that consists of cardiac muscle fibers (cells) responsible for the pumping action of the heart.
	OBJ: Describe the structure and function of the coverings of the heart.
11.	Blood flows from the right atrium through thevalve into the right ventricle. a. mitral b. aortic c. pulmonic d. tricuspid
	ANS: D Blood flows from the right atrium through the tricuspid valve into the right ventricle.
	OBJ: Beginning with the right atrium, describe blood flow through the normal heart and lungs to the systemic circulation.
12.	Rapid ejection of blood from the ventricular chambers of the heart occurs because the and valves open. a. pulmonic; aortic b. tricuspid; mitral c. pulmonic; mitral d. tricuspid; aortic
	ANS: A

	When the ventricles contract, the pulmonic and aortic valves open, allowing blood to flow out of the ventricles.
	OBJ: Name and identify the location of the atrioventricular (AV) and semilunar (SL) valves.
13.	The base of the heart is found at approximately the level of therib(s). a. first b. second c. fourth d. fifth and sixth
	ANS: B The base of the heart is its upper portion and is formed mainly by the left atrium, with a small amount of right atrium. It lies at approximately the level of the second rib, immediately in front of the esophagus and descending aorta.
	OBJ: Identify the surfaces of the heart.
14.	Which of the following are semilunar valves? a. Aortic and pulmonic b. Aortic and tricuspid c. Pulmonic and mitral d. Tricuspid and mitral
	ANS: A The pulmonic and aortic valves are semilunar (SL) valves. The semilunar valves prevent backflow of blood from the aorta and pulmonary arteries into the ventricles.
	OBJ: Name and identify the location of the atrioventricular (AV) and semilunar (SL) valves.
15.	Blood leaves the left ventricle through thevalve to the aorta and its branches and is distributed throughout the body. a. mitral b. aortic c. pulmonic d. tricuspid
	ANS: B When the left ventricle contracts, freshly oxygenated blood flows through the aortic valve into the aorta and out to the body.
	OBJ: Beginning with the right atrium, describe blood flow through the normal heart and lungs to the

- 16. Blood flows from the left atrium through the ______valve into the left ventricle.
 - a. mitral
 - b. aortic
 - c. pulmonic
 - d. tricuspid

Blood flows from the left atrium through the mitral (bicuspid) valve into the left ventricle.

17.	The right ventricle expels blood through thevalve into the pulmonary trunk. a. mitral b. aortic c. pulmonic d. tricuspid
	ANS: C The right ventricle expels the blood through the pulmonic valve into the pulmonary trunk. The pulmonary trunk divides into a right and left pulmonary artery, each of which carries blood to one lung (pulmonary circuit).
	OBJ: Beginning with the right atrium, describe blood flow through the normal heart and lungs to the systemic circulation.
18.	The primary neurotransmitters of the sympathetic division of the autonomic nervous system are a. dopamine and acetylcholine b. muscarine and norepinephrine c. acetylcholine and epinephrine d. norepinephrine and epinephrine
	ANS: D When sympathetic nerves are stimulated, the neurotransmitters norepinephrine and epinephrine are released. OBJ: Compare and contrast the effects of sympathetic and parasympathetic stimulation of the heart.
19.	
	ANS: B Complete occlusion of the left main coronary artery, also referred to as the <i>widow maker</i> , usually results in sudden death.
	OBJ: Name the primary branches and areas of the heart supplied by the right and left coronary arteries.
20.	Stimulation of beta2 receptor sites results in a. increased heart rate b. peripheral vasoconstriction c. constriction of renal blood vessels d. dilation of bronchial smooth muscle ANS: D

OBJ: Beginning with the right atrium, describe blood flow through the normal heart and lungs to the systemic circulation.