Name:		Class:	MS120/121	Date:
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MS 120/12	1 EKG/Cardiolog	у		
Multiple Cho	•	ce that best completes th	e statement or	
— — 1 1	Thich heart chamber a. Left atrium b. Right atrium c. Left ventricle d. Right ventricle	receives oxygenated t	blood from the lungs?	
— – 3	a. Damaged heart va	ign of coronary artery alves b. Inflammation of the blood supply to rregular heartbeat	of the blood	
	bruit noted during and an aneurysm. b. an embolus. c. bhlebitis. d. a thrombus.	auscultation in the area	of a blood vessel often	is a sign of
8 1 8	e are the a. pulmonary veins loulmonary arteries of superior vena cava of a ferior vena cava	b. e.	rry oxygen-rich blood fro	om the lungs to the heart.
a 1	ne a. endocardium b. bundle of His c. pericardium d. sinoatrial node	is the saclike membra	ne surrounding the heart	i.
_	nsitive tissue in the a	right atrium wall that i	nitiates the heartbeat is k	nown as the

	atrioventricular node. c.
	bundle of His. d.
	sinoatrial node.
_B7	. Blood vessels branching from the aorta to carry oxygen-rich blood to the heart muscle are called
	a. venae cavae. b.
	coronary arteries. c.
	carotid arteries. d.
	renal arteries.
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C 8	. In the conduction system of the heart, which of the following is responsible for collecting the
	electrical energy that stimulated the atria to
	contract? a. Purkinje fibers b. Bundle of His c.
	Atrioventricular node d. Sinoatrial node
_D 9.	The signal from the AV node is picked up by which of the following?
	a. Atrioventricular node
	b. Aorta c. Purkinje fibers
	d. Bundle of His
B. 10	. The part of the conduction system of the heart that wraps around the outer walls of the ventricles
	is/are the a. bundle
	branches. b. Purkinje
	fibers. c. bundle of
	His. d. aorta.
B 11. 7	The blood vessel branching from the heart that carries deoxygenated blood to the lungs is called the
	a. vena cava. b.
	pulmonary artery. c.
	carotid artery. d. renal
	artery.
A 12. T	The blood vessel that carries deoxygenated blood to the heart is called the
	a. vena cava. b.
	pulmonary artery. c.

	carotid artery. d. renal
	artery.
A 13. V	Which drug is used to treat congestive heart failure?
	a. Digoxin (Lanoxin) b.
	Fluoxetine (Prozac) c.
	Gemfibrozil (Lopid) d.
	Triazolam (Halcion) e.
	Warfarin (Coumadin)
E 14. V	Which of the following is an anticoagulant?
	a. Digoxin (Lanoxin) b.
	Fluoxetine (Prozac) c.
	Gemfibrozil (Lopid) d.
	Triazolam (Halcion) e.
	Warfarin (Coumadin)
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B 15. \	What is another name for a heart attack?
	a. CVA b.
	MI c. MS
	d. CHF
C 16. T	Thrombi form in the coronary arteries because of
-	plication of cardiovascular medication. b. an inherited
DVT.	inflammation at the site of an atherosclerotic plaque. d. a
_C 17.	A patient with chronic kidney disease has hypertension. What BP reading should this patient have to
	be within a healthy range?
	a. Below 118/78 mm Hg
	b. 122/86 mm Hg c.
	Below 130/80 mm Hg d.
	142/86 mm Hg

D_ 18. Patients diagnosed with stage 1 hypertension are first prescribed a(n) a. ACE inhibitor. b. beta blocker. c. low-dose aspirin each day. d. diuretic.	
C 19. An example of a calcium channel blocker is a. Cozaar. b. Lotensin. c. Cardizem. d.	
Tenormin. E20. Women have different symptoms of heart disease because a. they ignore initial indicators of heart disease. b. women tend to develop an evenly spread layer of plaque. c. they experience localized plaque buildup. d. atheroma builds up in smaller vessels. e. B and D _A21. Which statement is true about CK levels in a patient with an MI? a. The more severe the cardiac damage, the longer it takes for CK levels to peak. b. Levels begin to increase almost immediately after myocardial damage. c. CK levels return to normal within 18 hours. d. CK levels are not predictive of the extent of cardiac damage.	
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D 22. +Lifestyle changes recommended for patients who have had an MI include a. controlling hypertension. b. eating a low-fat, restricted-sodium diet. c. exercising five days a week. d. All of the above	
_E_23. What should the medical assistant do if she notes that a patient has an elevated BP? a. Record the first reading for the physician to review. b. Check	

the cuff size to make sure it matches the patient's arm. c. Check the BP reading in both arms. d. Wait 20 minutes and then recheck the reading. e. Both B and C should be done.

- _B_ 24. A DVT typically is diagnosed by
 - a. x-ray films that pick up calcification. b. Doppler studies that measure the rate of blood flow through a vessel. c. PT blood tests. d. troponin levels.
- _B__ 25. Which statement is true about a Doppler study? a. It requires IV injection of a dye. b. It picks up the speed of RBCs as they travel through the vessel. c. It must be performed in a hospital. d. All of the above are true.
- _D_ 26. You are providing patient education on a transesophageal echocardiogram. What should you include? a. The patient will be asleep during the procedure. b. The procedure does not provide as clear a picture as a regular echocardiogram. c. The patient will be hospitalized for the procedure. d. The patient must swallow the sonogram device.
- B 27. What structure forms the first layer of the heart?
 - a. Parietal pericardium
 - b. Epicardium c.

Myocardium d.

Endocardium

- _A_28. What is the only artery in the body that contains deoxygenated blood?
 - a. Pulmonary artery b.

Aorta c. Right coronary

artery d. Left coronary

artery

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- _E_29. Which of the following is part of the normal cardiac cycle?
 - a. Atrial contraction b.

Ventricular contraction c.

Recovery d. Heart rest e.

All of the above

- _B_ 30. For individuals not at risk, which of the following LDL levels is recommended?
 - a. Less than 180 mg/dL

b. 100 to 129 mg/dL c.

Below 70 mg/dL d. 190

mg/dL or higher

- _C_ 31. Following an MI, when do CK levels reach peak values?
 - a. At the time chest pain begins b. Within 3 to 12

hours of the onset of chest pain c. Within 24 hours

d. 48 to 72 hours after the onset of chest pain

- _B_ 32. In patients with diabetes or chronic kidney disease, the goal blood pressure reading is
 - a. no more than 140/90 mm Hg.
 - b. no more than 130/80 mm Hg.
 - c. no more than 120/75 mm Hg.
 - d. no more than 110/65 mm Hg.
- C 33. What best describes the condition when the blood pressure adjusts sluggishly or not at all to rapid

changes in position? a. Chronic obstructive

pulmonary disease b. Congestive heart

failure c. Orthostatic hypotension d.

Orthostatic hypertension

A 34. What procedure is described as a chemical injected into the vein to cause irritation and scarring

inside the vein, closing it off? a.

Sclerotherapy b. Endovenous

ablation therapy c. Vein stripping

and ligation d. Endoscopic vein

surgery

- C 35. What is the most common site for deep vein thrombosis?
 - a. Iliac vein b.

Femoral vein c. Calf

veins d. Saphenous

veins

D 36. A pulmonary embolism is the most serious complication of this condition and may be the first

indication that the condition was

present. a. Varicose veins b.

Arteriosclerosis c. Atherosclerosis d.

Deep vein thrombosis

D 37. Which of the following diseases develops because of widespread atherosclerotic plaque buildup in

the arteries outside the heart, especially in the

legs? a. Arteriosclerosis b. Atherosclerosis c.

Aneurysm d. Peripheral arterial disease

A 38. What type of study may be ordered for patients with intermittent claudication, lack of a pedal pulse,

or leg ulcers that refuse to

heal? a. Doppler study b.

Electrocardiogram c. Holter

monitor d. Angiography e. All

of the above

D 39. What is the goal of angioplasty?

a. To restore blood flow to ischemic myocardial tissue b.

To reduce the need for cardiac medication c. To eliminate

or reduce the number of angina episodes d. All of the

above

A 40. Which of the following has become standard treatment for any patient with a serious arrhythmia who

is at risk of sudden death from cardiac

arrest? a. Implantable

cardioverter-defibrillator b. Cardiac

pacemaker c. Cardiac catheterization d.

Angioplasty

A 41. Tachycardia is defined as

a. a faster than normal heart rate. b. a condition in which the patient has difficulty breathing when lying down. c. dizzy spells. d. a condition in which the heartbeat is irregular.

B 42. Bradycardia is defined as

a. a faster than normal heart rate. b. a slower than normal heart rate. c. chest pain. d. an irregular heartbeat.

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- _A_ 43. Systole is defined as
 - a. the contraction of the chambers of the heart.
 - b. the relaxation of the chambers of the heart. c.
 - a pounding or racing heart. d. None of the above
- _A_44. On an ECG recording, five 5-mm boxes are seen between the R waves. What is the patient's heart rate per minute?
 - a. 60 b. 65 c. 70
 - d. 80
- _A_ 45. If the ECG recording appears as a series of small, uniform spikes in the baseline, the medical assistant should a check for nearby electric appliances. b. ask the patient to lie still. c. help the patient relax and stay warm. d. check the cable connection to the electrodes.
- _B_ 46. If the ECG recording appears with the baseline rising and falling, the medical assistant should a check for nearby electric appliances. b. check electrode attachment. c. continue recording the ECG. d. check the cable connections to the electrodes.
- _C_47. If the ECG recording appears as a series of irregular, jagged peaks, the medical assistant should a check for nearby electric appliances. b. make sure all electrodes are in contact with the skin. c. help the

	patient relax and stay warm. d. check the cable connections to the electrodes.
B 48. A	a. 12-lead. b. Holter.
	c. Halter. d. echocardiogram.
A 49. Iı	a standard 12-lead ECG, the measurement of current that the heart muscle produces between the right arm electrode and the left arm electrode is known as the a. standard limb lead I. b. standard limb lead II. c. standard limb lead III. d. augmented lead a $V_{\rm L}$.
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B 50. W	Which deflection from the baseline represents the repolarization of the ventricles?
	a. P wave b. T
	wave c. ST
	segment d. QRS complex
A 51. W	What part of the ECG complex represents atrial depolarization?
	a. P wave b. T
	wave c. ST segment d. QRS
	complex
B 52	is the relaxation phase of the heart.
	a. Systole b. Diastole
	c. Cardioversion d.
	None of the above
B 53. T	the control(s) the rate of heart contraction by initiating contractions 60 to 100 times a
	minute. a. AV
	node b. SA node c.

Purkinje fibers _A_ 54. Which statement is true about NSR? a. It is a regular heart rate that falls within the average range of 60 to 80 bpm. b. It is a heart rate less than 60 bpm. c. It is a heart rate of greater than 100 bpm. d. It is an irregular heart rate that falls within the average range of 60 to 80 bpm. _C_ 55. The _____ reflects the time between the end of ventricular contraction and the beginning of ventricular recovery. a. U wave b. QRS complex c. ST segment d. QT interval B 56. Which statement is true about ECG paper? a. It is not affected by environmental factors, so it is easily maintained in the medical record. b. It has horizontal and vertical lines at 1-mm intervals. c. Every fifth line measures 6 mm on each side. d. None of the above is true. 8 Name: _____ ID: A _B_ 57. The _____ leads use two limbs to record the heart's electrical activity. a. augmented b. standard c. precordial d. chest

bundle of His d.

A 58. Which statement is true about lead II?

activity of the posterior right ventricle.

a. It is recorded as the rhythm strip on a cardiac monitor. b. It records tracings between the left arm and left leg. c. It records tracings between the left and right arms. d. It records the electrical

D 59. To	check the standardization of the ECG machine, the medical assistant depresses the
	standardization button. The stylus should deflect how many millimeters? a. 20 b. 5 c. 15 d. 10
D 60. Pr	reparation of a patient for an ECG includes
	a. placing the electrodes over bony prominences on the arms and legs.
	b. making sure the bed is pushed against the wall to stabilize the unit. c.
	placing the ground electrode at V ₆ d. instructing female patients to remove their bra and pantyhose.
C 61. A	diary of daily activities is part of the procedure for performing which of the following?
	a. Heart scan b. Stress
	test c. Holter monitor
	d. Pacemaker reading
A 62. Tl	ne image created on the ECG paper is made by the
	a. heated stylus. b. ink cartridge. c.
	lead wires. d. felt-tipped pen in the
	machine.
A 63. W	hich cardiac diagnostic tool requires the patient to exercise during the procedure?
	a. Stress test b.
	Heart scan c.
	Holter monitor d.
	Event monitor
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raille.	ID: A
C 64. A1	trial flutter may occur if

a. the electrical charge does not pass out of the SA node.

b. the ventricles contract repeatedly. c. ectopic atrial beats occur. d. the patient consumes too much caffeine.

- C 65. Which statement is not true about V-fib?
 - a. It typically is preceded by V-tach. b. It results in death quickly if not treated effectively. c. The patient can be stabilized with powerful cardiovascular medications. d. It may lead to asystole.
- A 66. Which of the following is seen on the ECG strip of a patient with an MI?
 - a. Elevated ST segments b. Elevated T waves c. Extended QRST segments d. Absent T wave
- _B_ 67. Electron beam tomography helps screen for cardiac risk by
 a. determining the extent of MI damage. b. assessing the
 amount of calcium in the coronary arteries. c. measuring the
 potassium levels in the heart muscle. d. determining the
 strength of the myocardial wall.
- _C_ 68. During the diastole cardiac cycle, which of the following occur?

 a. Atria contract and empty of blood b.

Ventricles contract and empty of blood c. The chambers refill with blood d. Both A and B e. All of the above

- _B_ 69. Which of the following is referred to as sinus bradycardia?
 - a. A heart rate within the range of 60 to 80 beats per minute
 b. A heart rate below 60 beats per minute
 c. A heart rate
 above 100 beats per minute
 d. An irregular cardiac rhythm
- _B_ 70. Which of the following represents the time from the beginning of atrial contraction to the beginning of ventricular contraction? a. QRS complex b. PR interval c. P wave d. Q wave

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- _D_ 71. Transverse plane leads on a standard ECG include which of the following?
 - a. Lead I b. Lead II
 - c. Lead III d. Leads

and VF

_C_72. Which of the following leads records tracings between the left arm and left leg, which reflects the electrical activity of the inferior surface of the left ventricle? a. Lead I b. Lead II c. Lead IV

- _D_ 73. Which of the following leads is placed in the fifth intercostal space, at the left midclavicular line?
 - a. V_1
 - b. V_2
 - c. V₃
 - d. V_4
 - e. V₅
- _B_ 74. If a patient has dyspnea or orthopnea, which of the following positions is acceptable for performing an electrocardiogram? a.

Semi-supine position b.

Semi-Fowler's position c.

Prone position d. Dorsal

recumbent position e. None of

the above

- B 75. Which of the following artifacts appears as a series of uniform small spikes on the ECG paper?
 - a. Somatic tremor b. Alternating

current interference c. Interrupted

baseline d. Wandering baseline

D 76. Which of the following may be seen on an ECG when the pathway of the electrical charge is normal,

but the rate or rhythm of the heartbeat is

altered? a. Biochemical arrhythmia b. Atrial

arrhythmia c. Ventricular arrhythmia d. Sinus

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A 77. Wh	nich of the following devices monitors the heart rhythm and delivers a shock to the heart if it
	detects a dangerous ventricular tachycardia or
	fibrillation? a. ICD b. Pacemaker c. Holter monitor d. All
	of the above
C 78. Wh	nich of the following is the most critical, life-threatening arrhythmia that can quickly result in
	death if not treated? a.
	Atrial arrhythmia b.
	Ventricular tachycardia c.
	Ventricular fibrillation d.
	Sinus arrhythmia e.
	Biochemical arrhythmia
C 79. Wh	nich of the following is not an immediate treatment for a heart attack?
_	a. Administration of nasal oxygen b. Sublingual
	nitroglycerin c. Non-aspirin analgesic d. Early
	administration of thrombolytic agents
Completion	Complete
each stateme	ent.
1. C	Chronic hypertension may result in left ventricular
	sypertrophy
2. P	ratients with primaryhypertension may be asymptomatic until serious health problems
occ	ur.
3	L sided heart failure—causes pulmonary edema, dyspnea, orthoppea, and

	4. A(n)DVT_ may be a life-threatening problem because of the potential for embolus creation.
	5Repolarization is the part of the electrical conduction process during which the myocardium recovers from the contraction of the atria and ventricles.
	6. Patients withscleroderma experience hardening of blood vessels, which results in ischemia and
	fibrotic changes in multiple tissues and organs.
	7. Contraction of the atria and ventricles is called _depolarization
	8. An inherited predisposition for developing aneurysms occurs in patients withmarfans syndromes
	9. A symptom of chronic peripheral vascular disease is _intermittent claudication
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	10. The T wave indicates ventricular recovery, orrepolarization, of the ventricles.
	11. ECG paper has horizontal and vertical lines at _1mm intervals.
	12. Every fifth line on ECG paper, both vertically and horizontally, is darker than the other lines and creates a large square measuring5mm on each side.
	13. The first three leads recorded are called the standard, or _bipolar, limb leads, because they each use two limb electrodes to record the heart's electrical activity.

tachycardia.

14. The _cardiac cycle is a combination of all of the electric events that occur in the heart during a single
heartbeat
15. The electrical activity of the heart is initiated in specialized tissue called theSA node, which is
located in the superior-posterior wall of the right atrium.
16. The most distal portions of the electrical system of the myocardium are thepurkinje fibers
17. Thebaseline is the electric recording of the heart at rest.
18. A(n) _premature ventricular contraction is an ectopic ventricular beat that occurs without a preceding P wave.
19. In the case of _hypokalemia, the patient has general malaise and muscle cramps. The condition may
occur if diuretics are used without potassium supplementation.
20. A cardiac _stress test is a diagnostic procedure performed to evaluate the patient's myocardial response to measured exercise.
21. An implanted ICD monitors the heart rhythm and automatically performs _ardioversion_ if it detects a
dangerous tachycardia or fibrillation.