



Test Bank



Subject:
CVS-MID018

بنا



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CVS-Mid 018

1-All the following are true regarding the use of ACEIS (angiotensin converting enzyme inhibitors) EXCEPT:

- a. Dose of Enalapril should be adjusted in patients with renal insufficiency .
- b. A good first line treatment for a hypertensive diabetic patient .
- c. Associated hypokalemia always avoided by giving K supplement .
- d. Most common bothersome side effect is chronic dry cough .
- e. Effective in reducing proteinuria in diabetic patients.

2-Match the following events indicating the order in which they occur starting from the P-wave :

- a. A-V valves close - fourth event.
- b. Aortic valve opens - fifth event.
- c. Q-wave - second event.
- d. Aortic valve closes - first event.
- e. T-wave - third event.

3-If you know the following data: Cardiac output measured by thermal dilution was 8 liters per minute, Time of the cardiac cycle is 0.75 second.End systolic volume is 50 ml.Then the ejection fraction is ?

- a. %80
- b. %67
- c. 150ml
- d. 100ml
- e. %75

4-The ECG is LEAST effective in detecting abnormalities in%3 ;

- a. Cardiac contractility .
- b. Coronary blood flow .

- c. The position of the heart in the chest .
- d. Atrioventricular conduction .
- e. Cardiac rhythm.

5-Lymphadenitis refers to which one of the following definitions :

- a. Inflamed, swollen, and tender draining lymph nodes.
- b. Dilated and tortuous bluish subcutaneous vessels.
- c. Lymph accumulation in pleural cavity.
- d. Bacterial infection and inflammation of lymph vessels.
- e. Absence of lymphatics in a certain organ or tissue.

6-Which one of the following is TRUE about the superior vena cava ?

- a. The upper half of the superior vena cava is contained in the pericardium .
- b. It terminates at the lower edge of the right second costal cartilage .
- c. The vena azygos joins the anterior aspect of the superior vena cava .
- d. It is to the right and lateral to the ascending aorta.
- e. It is formed by the union of the two brachiocephalic veins at the lower border of the first left costal cartilage.

7-During the reduced ejection phase, which one of the following is TRUE :

- a. Aortic pressure is falling below left ventricular pressure .
- b. Left ventricular pressure is constant .
- c. Left atrial pressure is falling .
- d. The A-V valves are closed .
- e. The QRS complex terminates just before this phase.

8-In the central venous pressure waveform :

- a. The "V" wave is caused by atrial contraction.
- b. The "V" wave occurs during ventricular systole.
- c. The "A" wave is absent in atrial fibrillation.
- d. The "A" wave occurs after ventricular systole.
- e. The "C" wave corresponds with closure of the aortic valve.

9-While examining the neck of a patient you have noticed a pulsation between the two heads of the sternocleidomastoid muscle. What could be the cause of this pulsation ?

- a. Right-sided heart failure.
- b. Obstruction of the thoracic duct.
- c. Left-sided heart failure.
- d. Obstruction of the brachiocephalic artery.
- e. Compression on the azygos vein in the posterior mediastinum.

10-The action of nitrate drugs in the treatment of ischemic heart disease is mainly due to :

- a. Lowering of blood pressure .
- b. Dilation of all types of arteries .
- c. Increasing the heart rate .
- d. Systemic venous dilation .
- e. Direct coronary artery dilation.

11-Among the following, the most likely underlying cause of malignant hypertension is :

- a. Chronic hepatic disease.
- b. A hidden malignancy in the lung.
- c. Adrenal insufficiency syndrome.
- d. Uncontrolled chronic hypertension.
- e. Protein losing enteropathy.

12-All of the following are examples of red infarcts, except :

- a. Small intestinal infarct
- b. Renal infarct.
- c. Reperfused spleen infarct.
- d. Pulmonary infarct.
- e. Liver infarct.

13-What are the similarities between the arch of the aorta and the ascending part of the aorta?

- a. The pulmonary bifurcation is under the arch while the right pulmonary artery is anterior to the ascending aorta.
- b. Both are located in the same mediastinum.
- c. Both are in close relation to the esophagus posteriorly.
- d. Both ends at the same plane.
- e. The left main bronchus is under the arch of the aorta while the right main bronchus is anterior to the ascending aorta.

14-Which of the following statements is TRUE concerning cardiac output (co)

- a. CO curve (related Rt. Atrial pressure to CO) is shifted to the right and downward by positive inotropic agents .
- b. CO Increases with decreasing the preload .
- c. CO decreases with elevation of afterload .
- d. CO curve (related Rt. Atrial pressure to CO) is shifted to the right when the intrapleural pressure becomes more negative .
- e. Co of the left ventricle is less than that of the right ventricle.

15-P-R interval is abnormally prolonged in all the following cases EXCEPT :

- a. Sinus bradycardia .
- b. A-V nodal rhythm .
- c. First degree heart block .
- d. High vagal tone .
- e. Atrial hypertrophy.

16-Reflex sympathetic stimulation and thus reflex tachycardia is LEAST LIKELY to occur with the following calcium channel blockers:

- a. Nifedipine.
- b. Nimodipine.
- c. Amlodipine.

- d. Verapamil.
- e. Nitrendipine.

17-All of the following may complicate advanced atherosclerosis, except :

- a. Arterial rupture.
- b. Aneurysm formation.
- c. Varicosities formation.
- d. Distal infarction.
- e. Superimposed thrombus.

18-In ventricular filling phase, it :

- a. Consumes much energy by ventricles .
- b. Gives rise to a second heart sound .
- c. Is much decreased during severe cardiac tamponade .
- d. Begins during isometric relaxation phase.
- e. Depends mainly on atrial contraction.

19-First heart sound occurs in :

- a. Isometric relaxation phase .
- b. Atrial systole phase .
- c. Diastasis .
- d. Rapid filling phase .
- e. Isometric (isovolumic) contraction phase.

20-Which one of the following is subjected to two currents of blood flow ?

- a. Anterior cusp of the tricuspid valve.
- b. Septal cusp of the tricuspid valve.
- c. Anterior cusp of the mitral valve.
- d. Posterior cusp of the tricuspid valve.
- e. Posterior cusp of the mitral valve.

21-From the causes of diastolic murmur choose the right answer ?

- a. Stenosis of aortic valve .
- b. Incompetence of aortic valve (aortic regurgitation) .
- c. Intraventricular septal defect .
- d. Stenosis of pulmonary valve .
- e. Incompetence of mitral valve (mitral regurgitation).

22-Which of the following nerves passes on the left (anterior) and right (posterior) sides of the arch of the aorta ?

- a. Left phrenic nerve.
- b. Left vagus.
- c. Right recurrent laryngeal nerve.
- d. Left recurrent laryngeal nerve.
- e. Right vagus.

23-A patient comes to your clinic complaining about hoarseness of the voice dyspnea and dysphagia. In physical examination, signs of Horner's syndrome were found and Pemberton's test was also positive. Which of the following structures is not involved in the development of the mentioned complains and findings ?

- a. Sympathetic chain in superior mediastinum.
- b. Right recurrent laryngeal nerve.
- c. Trachea.
- d. Superior vena cava before it enters the pericardium.
- e. Esophagus in the superior mediastinum.

24-Which of the following is NOT a mechanism to promote venous return and reduce blood pooling ?

- a. Parasympathetic stimulation .
- b. Thoraco-abdominal pump.
- c. One way venous valves .
- d. Skeletal muscle pump .
- e. Pumping of the heart.

25-Beta-blockers are used for prophylaxis in angina pectoris because they :

- a. Decrease cardiac afterload.
- b. Enhance collateral circulation.
- c. Decrease cardiac preload .
- d. Decrease heart rate and reduce myocardial work.
- e. Dilate the coronaries.

26-When the bundle of His is completely interrupted, the :

- a. Ventricles contract at a rate of 30-40 beats / minutes .
- b. Atria beat irregularly
- c. S.A node stops discharging .
- d. P-R interval remains constant from beat to beat .
- e. QRS complexes vary in shape from beat to beat

27-In a hypertensive patient who is taking insulin to treat diabetes, which of the following drugs is to be used with extra caution and advice to the patient ?

- a. Methyldopa.
- b. Hydralazine .
- c. Guanethidine.
- d. Propranolol
- e. Prazosin.

28-Intravenous infusion of normal saline will shift the venous return curve that relates right atrial pressure to venous return toward:

- a. Downward and to the left .
- b. Will not shift the curve anywhere
- c. Upward and to the right .
- d. Will not change the mean systemic filling pressure but will shift the curve downward .
- e. Will not change the mean systemic filling pressure but will shift the curve upward.

29-Resolution is the fate that may occur in ONE of the following :

- a. Stable atheroma.
- b. Old thrombus.
- c. Recent thrombus.
- d. Old infarct.
- e. Vulnerable atheroma.

30-Onion skin appearance of the arteriole results from :

- a. Cholesterol crystals accumulation.
- b. Neutrophils and edema filling the inflamed vessel.
- c. Alternating platelet-rich and red blood cell-rich layers.
- d. Reduplication of basement membranes.
- e. Deposition of hyaline material in the wall.

31-The cardiac surgeon places his finger in the transverse pericardial sinus what would be anterior to his finger ?

- a. Superior vena cava only.
- b. Pulmonary trunk and ascending aorta .
- c. Pulmonary trunk and superior vena cava.
- d. Superior and inferior vena cava .
- e. Right and left pulmonary veins.

32-The term 'vegetations' refers to a thrombus formation at :

- a. Lumen of aorta.
- b. Deep leg veins.
- c. Canula insertion site.
- d. Cardiac valves.
- e. Coronary artery.

33-In the treatment of hypertension, beta blockers are MOST useful in :

- a. Pregnant hypertensive ladies .
- b. Children .
- c. Old patients .

- d. Patients with heart failure .
- e. Young adults with hyperkinetic hearts.

34-About the histology of the blood vessels choose the WRONG statement.

- a. Tunica adventitia contains vasa vasorum.
- b. Tunica intima's main cells can secrete endothelin.
- c. Tunica adventitia contains parasympathetic nerves that secrete ATP and norepinephrine.
- d. Tunica media contains cells which can greatly influence the contractility of blood vessels.
- e. Tunica media contains cells that can synthesize collagen and elastin.

35-In the normal cardiac cycle :

- a. The duration of the QRS complex depends on the heart rate.
- b. The period of ventricular systole is almost equal to the Q-T interval.
- c. The R-R interval should not vary at all.
- d. Ejection occurs throughout systole.
- e. The PR interval is more than 0.22 seconds.

36-Choose the WRONG match:

- a. The posterior interventricular sulcus ...The middle cardiac vein.
- b. Eustachian valve .The coronary sinus.
- c. Internally, the right atrium is divided by.Crista terminalis.
- d. The fibrous skeleton of the heart. Passage for the AV bundle.
- e. Apex of the heart.5th left intercostal space 9 cm from the midline.

37-Choose the WRONG match .

- a. Valvulitis. Common in tricuspid valve.
- b. The nodulus Arantii .Semilunar valves.
- c. The noduli Albin . Atrioventricular valves.
- d. Sinuses of Valsalva. Semilunar valves.
- e. Lunula .Semilunar valves.

38-ONE is correct about fat embolism :

- a. Frequently follows complicated Caesarian sections.
- b. Represents the most common type of emboli.
- c. Anemia and thrombocytopenia may occur in associated syndrome.
- d. Fat along with epithelial cells and mucus are found within the embolus.
- e. Dissolved nitrogen is the major contributor to symptoms.

39-Myocardial contractility is increased by the following EXCEPT:

- a. An increase in fiber length.
- b. Calcium ions.
- c. An increase in parasympathetic nervous system activity.
- d. Catecholamines.
- e. Strenuous exercise is undertaken.

40-Which one of the following is not true about the right and left brachiocephalic veins ?

- a. Both found in the superior mediastinum.
- b. The left one is longer and oblique.
- c. Both begin behind the medial ends of the clavicle.
- d. Both receive vertebral and internal thoracic veins.
- e. Both ends at the same level where they form a structure that receives a vein that arches below the right main bronchus

Answers:

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|----|---|----|---|----|---|----|---|
| 1 | C | 11 | D | 21 | B | 31 | B |
| 2 | C | 12 | B | 22 | D | 32 | D |
| 3 | B | 13 | D | 23 | B | 33 | E |
| 4 | A | 14 | C | 24 | A | 34 | C |
| 5 | A | 15 | - | 25 | D | 35 | B |
| 6 | D | 16 | D | 26 | A | 36 | B |
| 7 | D | 17 | C | 27 | D | 37 | A |
| 8 | C | 18 | C | 28 | C | 38 | C |
| 9 | A | 19 | E | 29 | C | 39 | C |
| 10 | D | 20 | C | 30 | D | 40 | E |

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