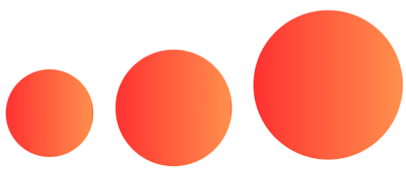
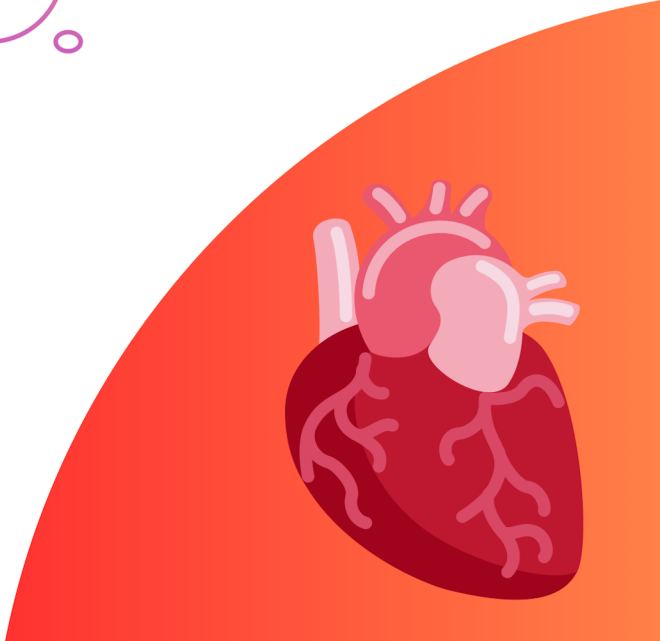




**021
batch**

**CVS
Final
Exam**



Anatomy

- 1) The embryonic origin of left subclavian artery is:
 - a) 7th intersegmental artery
 - b) Caudal to the 7th inter-segmental artery and common dorsal aorta

- 2) Which of the following is the origin for the IVC hepatic segment :
 - a) Right subcardinal vein
 - b) Left vitelline vein
 - c) Right vitelline vein

- 3) Which of the following forms IVC valve in right atrium:
 - a) Cranial part of sino-atrial right valve
 - b) Caudal part of sino-atrial right valve
 - c) septum spurium
 - d) Septum secundum

- 4) The smooth posterior wall of left atrium is formed by:
 - a) Sinus venosus
 - b) Absorption of Pulmonary veins

5) A mom complained that her baby's skin appears bluish in his lower limb but it's normal above, in examination, there was no femoral pulse. In x-ray we found erosion in the lower borders of his ribs, the diagnosis:

- a) Coarctation of the aorta
- b) Fallot's tetralogy

6) All of the following is true, except?

- a) Ventricle septal defect – non cyanotic
- b) Premature closure of foramen ovale – left ventricle hypertrophy
- c) Atrial septal defect – non cyanotic

Answers: A , C, B, B, A, B

Pharmacology

1) What's the correct match:

- a) Acute termination of AVN tachycardia- amiodarone
- b) Ventricular tachyarrhythmia & prolonged QTR – Lidocaine

2) A drug that works on LPL and EL , with a subsequent decrease TG,LDL,and HDL with independently effect on LDL-R :

- A) niacin
- B) Bempedioc acid
- C) PCSK9 inhibitors
- D) Evincumab
- E) Volanesorsen

3) Which of the following drugs is contraindicated in wolf Parkinson white syndrome:

- a) Amiodarone
- b) Verapamil
- c) Procainamide
- d) All of the above

4) Which of the following drugs increase LDL-R and subsequently decrease LDL-C:

- a) Inclisiran
- b) Volanesorsen
- c) Evinacumab
- d) Niacin

5) What drug is given in high CVS risk:

- A) Rosuvastatin
- B) Lovastatin
- C) Simvastatin

6) NSAIDs will decrease the side effects of which of the following drug :

- a)niacin

Answers: B, D, B, A, A

Pathology

- 1) A prominent granulation tissue is seen after a MI in:
 - a) 2 weeks
 - b) 6 weeks
 - c) 24 hours2-3 days

- 2) Thrombosis superimposed on atheromatous plaque, critically is associated with:
 - a) Stable angina
 - b) Unstable angina

- 3) One of the following is from JONES major criteria:
 - a) Erythema marginatum
 - b) Elevated ESR

- 4) Which of the following is not associated with acute infective endocarditis:
 - a) Fever
 - b) Septic vegetations
 - c) Aschoff bodies

5) True regarding bicuspid aortic valve:

a) Symptoms appear after 2 week of birth

b) Acquired disease

c) progressive degenerative calcification of aortic valve

6) One of the following is considered as complication of infective endocarditis Vegetation :

Ans: septic infarcts

Answers: A, B, A, C, C

Microbiology

- 1) Which of the following can cause myocarditis:
 - a) Trypanosoma Cruzi
 - b) Diphtheria
 - c) Poliomyelitis virus
 - d) Coxiella burnetii
 - e) All of above

- 2) (A clinical case) a patient has chest pain, had undergone to valve replacement, lab findings are a gram-positive bacteria, catalase positive, coagulant negative:
 - a) Staph.epidermidis
 - b) Staph.aureus

- 3) Wrong statement regarding viral hemorrhagic fever:
 - a) All are zoonotic and subdivided into arbovirus and non-arbovirus.
 - b) All are enveloped RNA.
 - c) arthropods (arbovirus) VHF are hantavirus, arenaviridae, ...

4) all of the following VHF are person-person transmission, except:

- a) Murbug
- b) Hantavirus
- c) Dengue fever
- d) Ebola
- e) CCHG

5) Rheumatic fever is :

- a) Antibody inflammation against capsular polysaccharide of group a streptococcus in joints
- b) Antibody inflammation against M protein of group a streptococcus affects cardiac tissue
- c) An infection

Answers: E, A, C, C, B

Clinical

1) A clinical case: a patient needs a CABG for his Left anterior Descending LAD, Obtuse marginal artery OM2, and right descending artery RDA, which of the following is best bypass graft:

- a) OM2 with left internal mammary artery, LAD to right internal mammary artery, radial artery with RDA
- b) Left internal mammary artery to LAD, Great saphenous to others.

2) patient came with increased BP , she took it many times before coming to the clinic , the clinical measurements of her pressure showed 145/89 in her right arm, and 135/79 in her left arm, according to recent AHA guidelines in BP classification she is in:

- a) Stage 1
- b) Stage 2
- c) Stage 3
- d) Stage 4
- e) Normal Blood pressure

- 3) Least indication for CABG is in one of the following:
- a) Two artery disease
 - b) Triple artery diseases
 - c) Distal LAD
- 4) A female feels fatigue, hypertensive, and lab findings showed that she has hypokalemia, what is the next step?
- a) Metanephrine lab test
 - b) Renin/angiotensin activity
 - c) Aldosterone/renin ratio

Answer: A, B, A, C

Physiology

Dr. Fatima-Vascular

- 1) True about compliance in veins:
 - a) Arteries has a higher compliance than veins
 - b) Both arteries & veins has the same compliance
 - c) Vein is more compliant than artery due to its distensibility

- 2) Some organs receive more blood than their needs, which of the following is like reconditioning organ:
 - a) Brain
 - b) Kidney
 - c) Skeletal muscles

- 3) True regarding chemoreceptors:
 - a) Central are sensitive to increasing in PCO_2 & pH and peripheral are sensitive to change in oxygen level
 - b) Are located in aortic & carotid bodies

- 4) a patient has developed a peripheral edema, after examination & lab test has appeared that he has liver dysfunction & decreasing in albumin level, mostly cause of the edema ?
 - a) Increase in hydrostatic pressure
 - b) Decrease oncotic plasma pressure
 - c) Capillary permeability

Answers: C, B, A, B

5) a patient suffers from back pain , applying a heat sac on site of pain will cause ?

- a) Arteriolar contraction
- b) Arteriolar dilation
- c) No change in arterioles

6) What causes the highest reduction in pressure pulses:

- A) Capillaries
- B) Arterioles

7) What causes arteriolar dilation

- a) Vasopressin
- b) Endothelin
- c) NO

8) Saphenous vein remodeling is:

- A) inward eutrophic remodeling
- B) Hypertrophic remodeling

9) a man has edemas that reduce ?? after walking, the reason of the reduction in the edema is due to:

- a) Muscles pump
- b) Gravity force
- c) Veins valve incompetence

Answers: B, B, C, B, A

10) Arteries stiffness results in:

Ans: Increase pulse pressure

11) True about turbulence:

Ans: anemia increases it

12) Mechanism of auto regulation in cerebral perfusion:

A) Angiotensin II

B) myogenic activity

C) NO

D) Sympathetic stimulation

13) Correct according baroreceptors :

a) Located in aortic and carotid bodies

b) Stability of blood pressure

Answers: B, B

Dr. Yanal physiology

- 1) A 21-year man, his cardiac reserve is 300%, and his maximal cardiac output is 16L/min, what is his cardiac output at rest?
 - A) 8 L/min
 - B) 6L/min
 - C) 5.33L/min
 - D) 4 L/min
 - E) 3 L/min

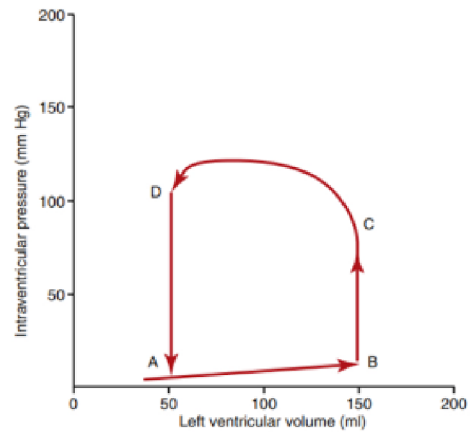
- 2) A significantly increased venous (A) wave which measured in internal jugular vein results from:
 - A) Mitral valve stenosis
 - B) Tricuspid valve stenosis

- 3) If a patient's cardiac output was 5000ml/min and R-R interval was 0.6 seconds, EDV is 150 ml, we can find that:
 - a) EF = 33%
 - b) ESV is 50

- 4) Ventricles filling increase in:
 - a) Bradycardia
 - b) Atrium contraction

Answers: D, B, A, A

Regarding the following picture solve questions 5 & 6



Cardiac cycle occurs in 1 second

5) The diastasis portion is:

- a) Between C & D
- b) Between A & B
- c) After A

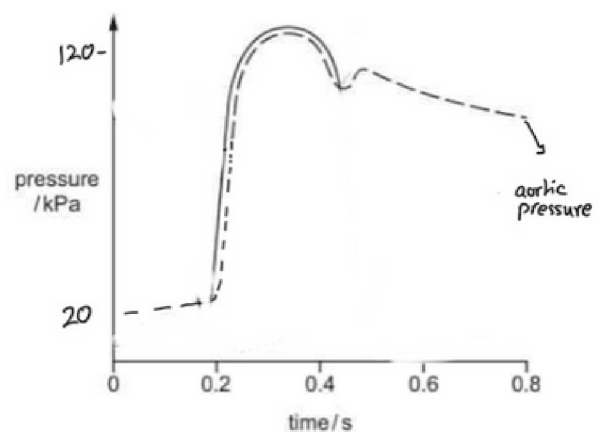
6) Calculate the cardiac output :

- a) 4 L/min
- b) 6 L/min
- c) Can't be determined

Answers: B, B

7) The following pic shows:

ans: A Decreasing in aorta preload



8) Frank Starling law states :

A) increasing volume in ventricles will increase the force of contraction

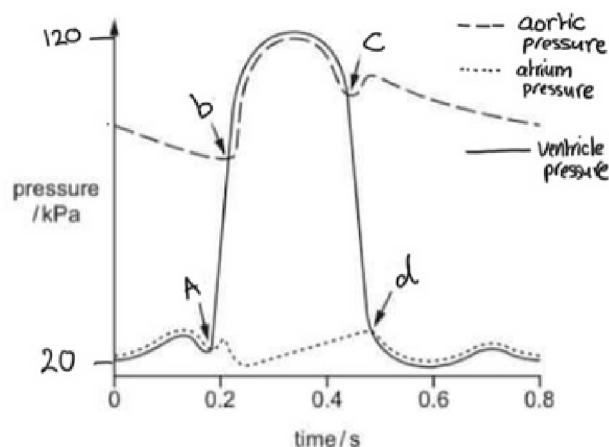
B) cardiac output is heart rate by stroke volume

9) aortic pressure =120/90 means :

A) pressure gradient around aortic valve is 90

B) minimum pressure in left ventricle is 90

10) Wrong point::



a) Point c – 2nd heart sound

b) Point a – first heart sound

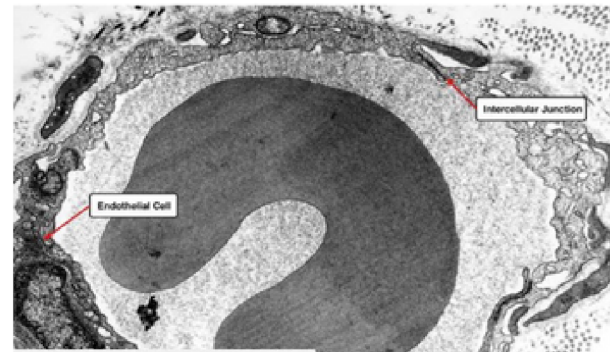
c) Point b –xx?? 😞 we don't remember

Answers: A, A, ?

Labs anatomy & physiology

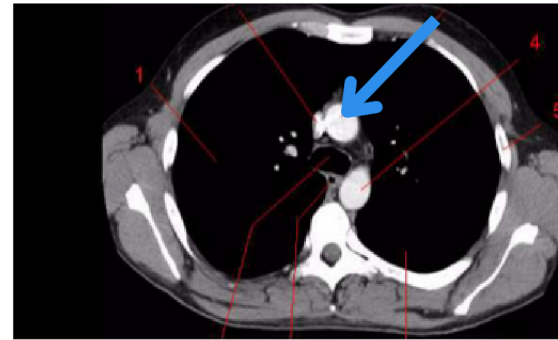
1) The following capillary is founded in:

- a) Spleen
- b) Lung
- c) Intestines
- d) Liver
- e) Kidney



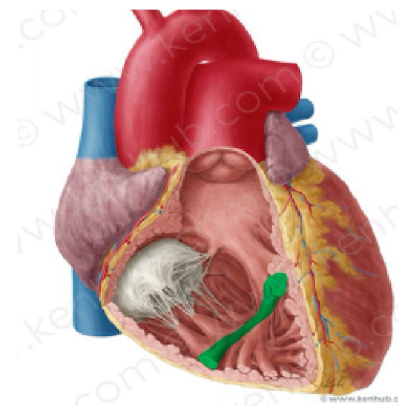
2) This following structure is:

- a) SVC
- b) Descending aorta
- c) Ascending aorta



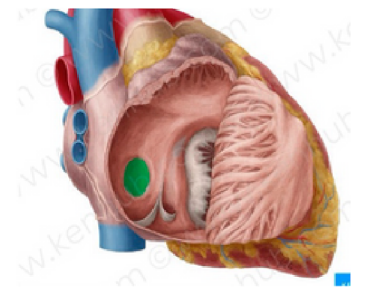
3) Identify the following structure:

- a) Moderator trabecule
- b) Moderator line
- c) Septo marginal trabecula



4) The following structure's origin is?

- a) Septum primum
- b) Septum secundum
- c) Septum supurium



Answers: B, C, C, A

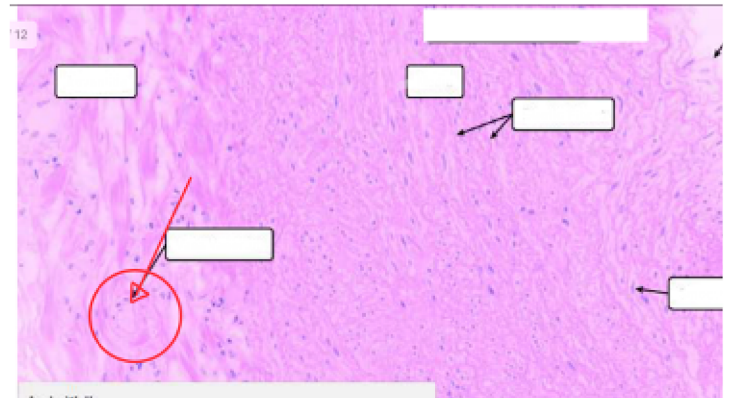
5) One of the following is in this case:

- a) Dilation of pulmonary
- b) Overriding aorta ✓
- c) Left ventricular hypertrophy
- d) Regurgitation
- e) Atrial septal defect



6) This structure is?

Ans: vasa vasorum



Physiology lab

1) All of the following is true regarding the ECG, except:

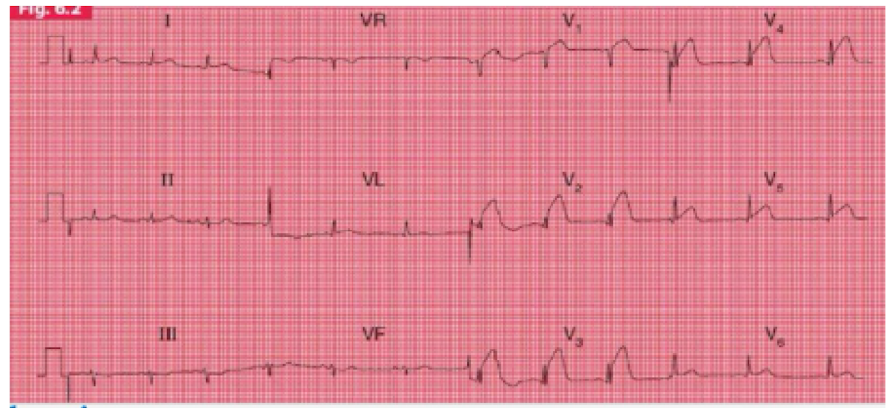
- a) HR = 50 bpm
- b) Prolong QRS
- c) Hyperacute T wave
- d) Isoelectric ST

لم نجد الصورة

Ans : B

2) This ECG shows?

Ans: anteroseptal wall infarction



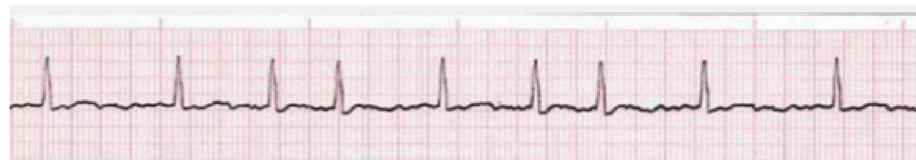
3) This appearance of P wave is due to?

(p pulmonale pic)

- a) Left atrium enlargement
- b) Right ventricle hypertrophy
- c) Right atrium enlargement

4) A clinical case : an ECG of a man was as following, it is the appearance of

- a) Atrial fibrillation
- b) Atrial flutter



5) This ECG mostly reflects

- a) Wenckebach periodicity
 - b) Fixed ratio block
- Hyper acute t

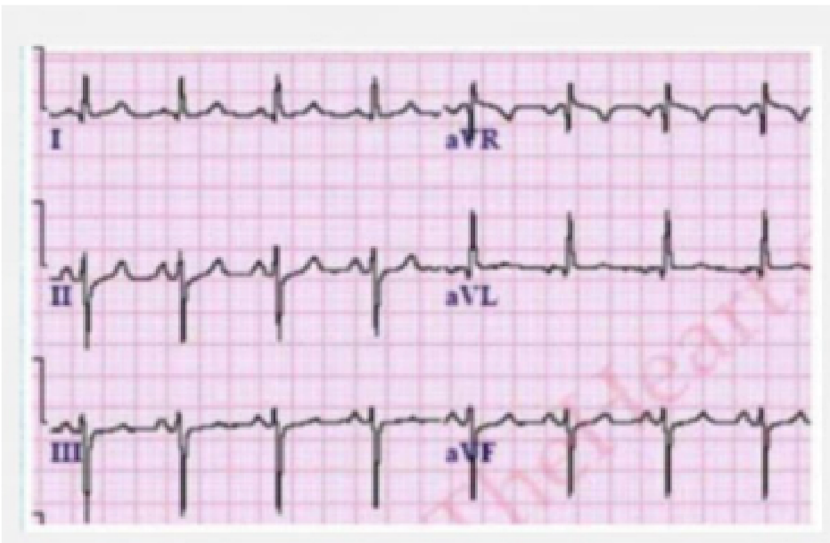


Answers: C, A, A

6) Wrong about ECG management & recording:

- The electrode is yellow on the left arm , red in the right arm
- Make sure that skin is clean and dry
- V5 is placed in the 5th intercostal space , Left mid clavicular line ✓
- Ask the patient to take off any jewelry, belts and clothes with metallic parts
- Apply the gel in sufficient quantities.

7) this show : left axis deviation



“وَاعْتَصِمُوا بِحَبْلِ اللَّهِ جَمِيعًا وَلَا تَفَرَّقُوا” وَادْكُرُوا اللَّهَ عَلَيْهِمْ إِذْ أَنْتُمْ أَعْدَاءُ
فَأَلَّفَ بَيْنَ قُلُوبِكُمْ فَأَصْبَحْتُمْ بِنِعْمَتِهِ إِخْوَانًا وَكُنْتُمْ عَلَى شَفَا حُفْرَةٍ مِنَ النَّارِ فَأَنْقَذَكُمْ
مِنْهَا كَذَلِكَ يُبَيِّنُ اللَّهُ لَكُمْ آيَاتِهِ لَعَلَّكُمْ تَهْتَدُونَ