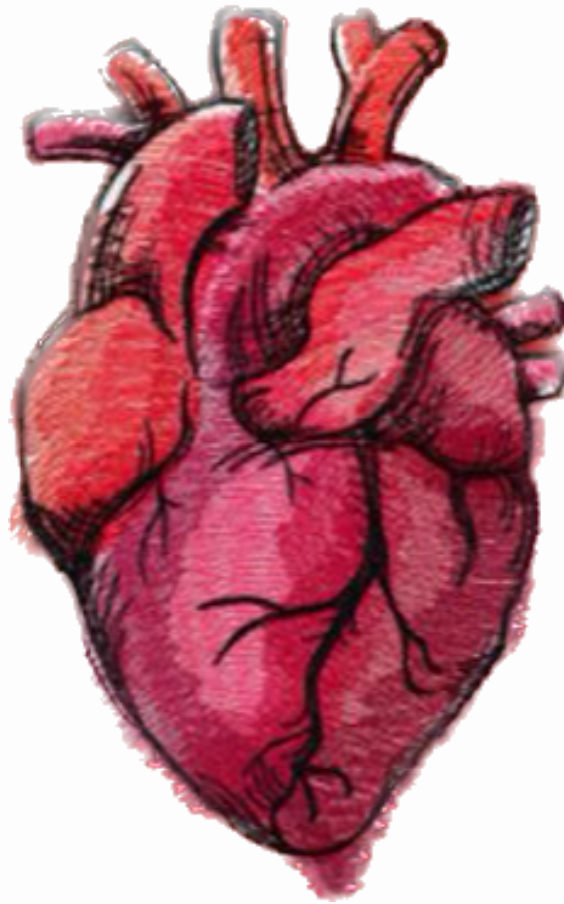




CARDIOVASCULAR SYSTEM



SUBJECT : Physiology quiz

LEC NO. : 2

DONE BY : Mofeed Obeidat

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SCAN ME!

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Na⁺ accumulates within the cell and intracellular K⁺ decreases = depolarization can occur

- A) Full resting potential
- B) Phase 1
- C) ATP pumps inactivated
- D) Non-Pacemaker action potentials (Fast response)

Occurs in atrial cells, ventricular cells, and the Purkinje fibres, resting membrane potential is -90 mV

- A) Non-Pacemaker action potentials (Fast response)
- B) Full resting potential
- C) ATP pumps inactivated
- D) Phase 1

rapid repolarization - Ca²⁺ channels close and K⁺ channels open resulting in

K⁺ efflux (there are also a class of K⁺ channels that are receptor gated and open in response to binding of a chemical messenger like acetylcholine to the receptor/channel)

- A) Phase 0
- B) Phase 3
- C) Phase 4
- D) Phase 2

requires sodium, potassium, and calcium ions be restored to their resting concs, use ATPase primary AT pumps (calcium and sodium out, potassium in)

- A) Non-Pacemaker action potentials (Fast response)
- B) Full resting potential
- C) ATP pumps inactivated
- D) Phase 1

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diastole = resting potential;

K⁺ are leaving the cell and thereby making the membrane potential more negative inside. At the same time, fast sodium channels and (L-type) slow calcium channels are closed.

Select the correct term

- A)Phase 4
- B)Phase 1
- C)Phase 2
- D)Phase 3

What is the primary pacemaker of the heart?

- A)Purkinje fibers
- B)Bundle of his
- C)Sinoatrial (SA) node
- D)Atrioventricular (av) node

Action potential of the SA nodal fiber is usually caused by?

- A. Closure of fast sodium channels.
- B. Opening of fast sodium channels.
- C. Opening of potassium channels.
- D. Opening of slow calcium-sodium channels.
- E. Opening of sodium and potassium channels.

located in the right atrium along the lower part of the interatrial septum, relays signals to the ventricles, heart contractions

Select the correct term

- A)AV (atrioventricular) node
- B)Electrocardiogram (ECG)
- C)stage 3 of heart contraction
- D)SA (sinoatrial) node (pacemaker)

Ans
1C
2A
3b
4B
5A
6C
7D
8A

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