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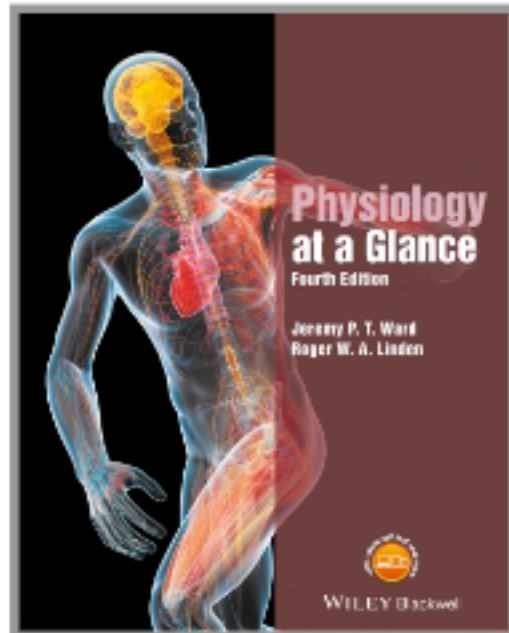
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Multiple Choice: Chapter 22 Initiation of the heart beat and excitation-contraction coupling

Question 22.1 Action potentials in ventricular muscles

- A are identical to those in skeletal muscles except for the duration of the action potential
- B have a plateau phase caused by the delay in the opening of K^+ channels
- C are initiated when ventricular myocytes are depolarized to a threshold potential of -50 mV
- D have a refractory period which prevents another action potential being initiated until the muscle relaxes

Well done, you have selected the right answer.

The correct answer is D.

[Next Question](#)



Multiple Choice: Chapter 21 The cardiac cycle

Question 21.4 The ventricular end-diastolic volume in man is approximately _____ and the end-diastolic pressure is _____

- A 130 mL, >100 mmHg
- B 130 mL, <10 mmHg
- C 70 mL, <10 mmHg
- D 70 mL, >100 mmHg

Sorry, you have selected the wrong answer.

The correct answer is B.

Next Chapter

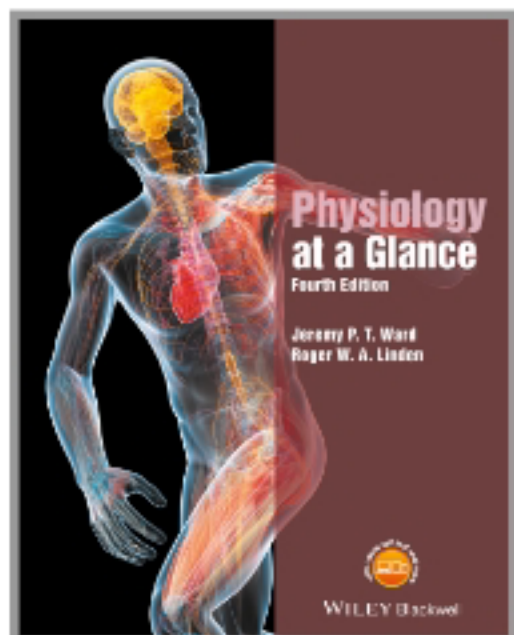
140 ml ,0 mmhg





Physiology at a Glance

Jeremy P. T. Ward, Roger W. A. Linden

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Multiple Choice: Chapter 21 The cardiac cycle

Question 21.3 During which phases of the cardiac cycle do the atrioventricular valves remain open?

- A atrial diastole
- B isovolumetric ventricular relaxation
- C isovolumetric ventricular contraction
- D passive filling

Well done, you have selected the right answer.

The correct answer is D.

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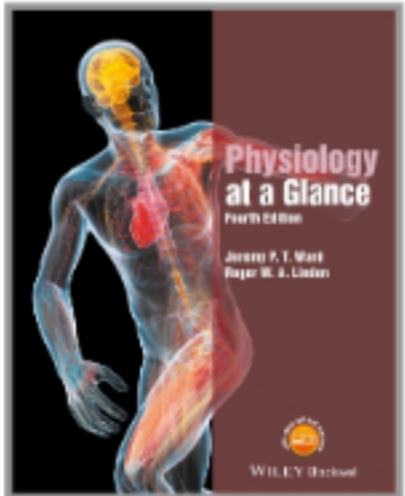
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Multiple Choice: Chapter 12 Principles of diffusion and flow

Question 12.3 The flow through the majority of the cardiovascular system at rest

- A is laminar
- B is turbulent
- C is described by Poiseuille's law which states that flow is dependent on the pressure difference across the ends of a tube and the resistance provided by the tube
- D is not affected by changes in the viscosity of blood

Well done, you have selected the right answer.

The correct answer is A.

[Next Question](#)





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Multiple Choice: Chapter 23 Control of cardiac output and Starling's law of the heart

Question 23.3 Constriction of the veins

- A decreases venous compliance and therefore increases CVP
- B increases venous resistance and therefore decreases CVP
- C increases the slope of the vascular function curve
- D reduces venous return

Well done, you have selected the right answer.

The correct answer is C.

Next Question





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Multiple Choice: Chapter 23 Control of cardiac output and Starling's law of the heart

Question 23.2 Starling's law of the heart

- A states that 'the stroke volumes of the left and right ventricles are matched'
- B concerns the relationship between the degree of stretch of cardiac muscle and the force of contraction
- C causes an increase of contractility of cardiac muscle
- D can equally be applied to skeletal as well as cardiac muscle

Sorry, you have selected the wrong answer.

The correct answer is B.

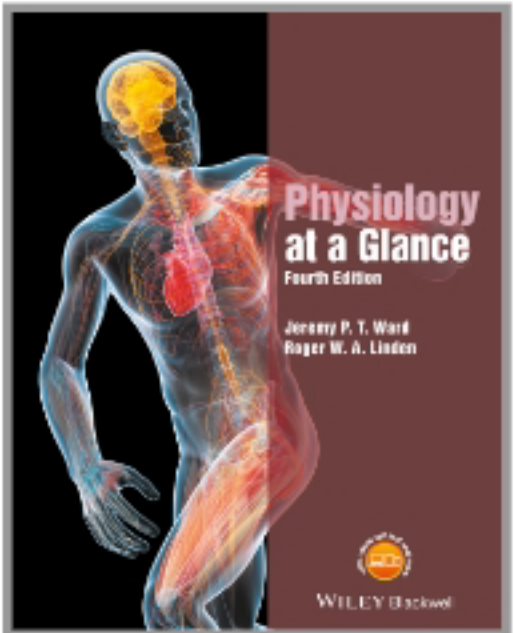
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Multiple Choice: Chapter 21 The cardiac cycle

Question 21.2 Which of the following indicates the causes of the first and second heart sound in the correct order?

- A atrial systole – ventricular systole
- B semilunar valve closure – atrioventricular valve closure
- C ventricular diastole – semilunar valve closure
- D ventricular systole – ventricular diastole

Sorry, you have selected the wrong answer.

The correct answer is D.

[Next Question](#)



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Multiple Choice: Chapter 21 The cardiac cycle

Question 21.1 The aortic valve

- A prevents the backflow of blood into the aorta during ventricular diastole
- B prevents the backflow of blood into the left ventricle during ventricular diastole
- C prevents the backflow of blood into the left ventricle during ventricular systole
- D prevents the backflow of blood into the aorta during ventricular systole

Sorry, you have selected the wrong answer.

The correct answer is B.

Next Question





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Multiple Choice: Chapter 22 Initiation of the heart beat and excitation-contraction coupling

Question 22.3 Excitation-contraction coupling in cardiac ventricular cells requires

- A efflux of Na^+ ions
- B efflux of K^+ ions
- C influx of Ca^{2+} ions
- D influx of Cl^- ions

Well done, you have selected the right answer.

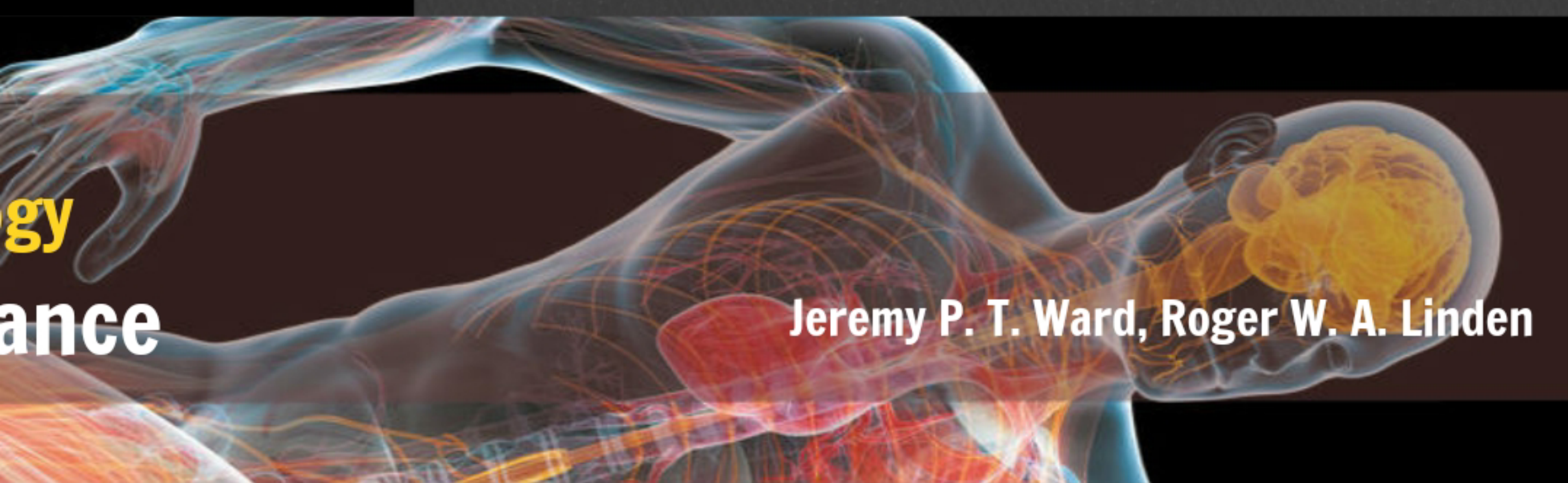
The correct answer is C.

[Next Question](#)



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Multiple Choice: Chapter 22 Initiation of the heart beat and excitation-contraction coupling

Question 22.2 The cells of the sinoatrial node

- A have a resting potential of -90 mV
- B have action potentials which exhibit a slow upstroke because of the presence of L-type calcium channels
- C are the only cells in the heart that can act as pacemaker cells
- D are directly affected by noradrenaline and acetylcholine in that they slow down and speed up the heart respectively

Sorry, you have selected the wrong answer.

The correct answer is B.

Next Question

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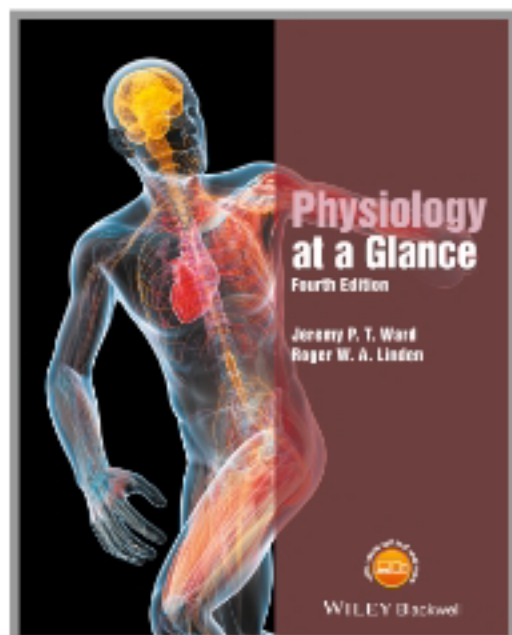
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Multiple Choice: Chapter 12 Principles of diffusion and flow

Question 12.1 Passive diffusion

- A involves a carrier medium
- B requires the expenditure of energy
- C refers to movement down a concentration gradient
- D is described by Darcy's law

Well done, you have selected the right answer.

The correct answer is C.

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Multiple Choice: Chapter 22 Initiation of the heart beat and excitation-contraction coupling

Question 22.4 Noradrenaline

- A has a positive inotropic effect on the heart muscle cells whilst acetylcholine has a negative inotropic effect
- B is released by the sympathetic fibres innervating the SA node only
- C has a positive chronotropic effect on cardiac cells by increasing the rate of decay of the pacemaker potential
- D slows down the Ca^{2+} sequestration into the sarcoplasmic reticulum thereby increasing contractility of the cardiac cells

Sorry, you have selected the wrong answer.

The correct answer is C.

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