

HRV Anatomy and Physiology

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Question 1

Generic Parent » Anatomy and Physiology

1 pt

Normal heartbeats are initiated by the

- A. atrioventricular node.
- ✓ B. sinoatrial node.
- C. bundle branches.
- D. Purkinje fibers.

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Tue 18th Jun 2019
Last Modified: N/A
QID#: 17,080,557

Correctly answered feedback

Normal heartbeats are initiated by the sinoatrial node.

Incorrectly answered feedback

Normal heartbeats are initiated by the sinoatrial node.

Question 2

Generic Parent » Anatomy and Physiology

1 pt

When recording the ECG, the interbeat interval is measured between successive

- A. P waves.
- ✓ B. R-spikes.
- C. S-T segments.
- D. T-P segments.

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Tue 18th Jun 2019
Last Modified: N/A
QID#: 17,080,536

Correctly answered feedback

When recording the ECG, the interbeat interval is measured between successive R-spikes.

Incorrectly answered feedback

When recording the ECG, the interbeat interval is measured between successive R-spikes.

Question 3

Generic Parent » Anatomy and Physiology

1 pt

What is the timescale of the interbeat interval?

- A. microseconds
- ✓ B. milliseconds
- C. several seconds
- D. minutes

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Tue 18th Jun 2019
Last Modified: N/A
QID#: 17,080,538

Correctly answered feedback

The interbeat interval is measured in milliseconds (thousandths of a second).

Incorrectly answered feedback

The interbeat interval is measured in milliseconds (thousandths of a second).

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Question 4

Generic Parent » Anatomy and Physiology

1 pt

The _____ describes the impact of blood pH on the bond between hemoglobin and oxygen.

- ✓ A. Bohr effect
- B. Haldane effect
- C. Zeeman effect
- D. Stark effect

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Tue 18th Jun 2019
Last Modified: N/A
QID#: 17,080,523

Correctly answered feedback

The Bohr effect describes the impact of blood pH on the bond between hemoglobin and oxygen.

Incorrectly answered feedback

The Bohr effect describes the impact of blood pH on the bond between hemoglobin and oxygen.

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Question 5

Generic Parent » HRVB Tutor

1 pt

Select an accessory muscle.

- A. pectoralis minor
- B. sternocleidomastoid
- C. trapezius
- ✓ D. all of these choices are correct

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Thu 20th Jun 2019
Last Modified: N/A
QID#: 17,096,149

Correctly answered feedback

The pectoralis minor, sternocleidomastoid, and trapezius muscles are accessory muscles. Excessive use of these muscles can disrupt effortless breathing.

Incorrectly answered feedback

The pectoralis minor, sternocleidomastoid, and trapezius muscles are accessory muscles. Excessive use of these muscles can disrupt effortless breathing.

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Question 6

Generic Parent » Anatomy and Physiology

1 pt

During relaxed breathing, most air movement into the lungs is due to the contraction of the

- ✓ A. diaphragm.
- B. external intercostals.
- C. sternocleidomastoid.
- D. internal intercostals.

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Tue 18th Jun 2019
Last Modified: N/A
QID#: 17,080,796

Correctly answered feedback

During relaxed breathing, most air movement into the lungs is due to the contraction of the diaphragm.

Incorrectly answered feedback

During relaxed breathing, most air movement into the lungs is due to the contraction of the diaphragm.

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Question 7

Generic Parent » Anatomy and Physiology

1 pt

According to Porges' polyvagal theory, daily stressors _____ the myelinated vagus resulting in _____.

- ✓ A. inhibit, parasympathetic withdrawal
- B. activate, parasympathetic withdrawal
- C. inhibit, suppression of the sympathetic-adrenal axis
- D. activate, stimulation of the sympathetic-adrenal-medullary axis

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Tue 18th Jun 2019
Last Modified: N/A
QID#: 17,080,883

Correctly answered feedback

According to Porges' polyvagal theory, daily stressors inhibit the myelinated vagus resulting in parasympathetic withdrawal.

Incorrectly answered feedback

According to Porges' polyvagal theory, daily stressors inhibit the myelinated vagus resulting in parasympathetic withdrawal.

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Question 8

Generic Parent » HRVB Tutor

1 pt

Vagus nerve firing

- ✓ **A.** constricts the bronchioles of the lungs.
- B.** accelerates the heart.
- C.** raises blood pressure.
- D.** inhibits digestion.

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Tue 18th Jun 2019
Last Modified: N/A
QID#: 17,081,310

Correctly answered feedback

Vagus nerve firing constricts the bronchioles of the lungs. This is why physicians administer a sympathetic agent to treat an asthma attack.

Incorrectly answered feedback

Vagus nerve firing constricts the bronchioles of the lungs. This is why physicians administer a sympathetic agent to treat an asthma attack.

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Question 9

Generic Parent » Anatomy and Physiology

1 pt

The _____ division of the autonomic nervous system regulates the gut through a network of approximately _____ neurons.

- ✓ A. enteric, 100 million
- B. parasympathetic, 80 million
- C. sympathetic, 100 million
- D. enteric, 200 million

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Tue 18th Jun 2019
Last Modified: N/A
QID#: 17,080,860

Correctly answered feedback

The enteric division of the autonomic nervous system regulates the gut through a network of approximately 100 million neurons.

Incorrectly answered feedback

The enteric division of the autonomic nervous system regulates the gut through a network of approximately 100 million neurons.

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Question 10

Generic Parent » HRVB Tutor

1 pt

The ability of the PNS to slow the heart 20 or 30 beats per minute, or briefly stop it, illustrates the phenomenon of

- ✓ A. accentuated antagonism.
- B. response stereotypy.
- C. mass activation.
- D. allostasis.

Question Type: Multiple Choice
Randomize Answers: Yes
Date Added: Tue 18th Jun 2019
Last Modified: N/A
QID#: 17,081,330

Correctly answered feedback

The ability of the PNS to slow the heart 20 or 30 beats per minute, or briefly stop it, illustrates the phenomenon of accentuated antagonism.

Incorrectly answered feedback

The ability of the PNS to slow the heart 20 or 30 beats per minute, or briefly stop it, illustrates the phenomenon of accentuated antagonism.

