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Level: SL IB in Biology
Subject: Biology
Topic: IB SL Biology
Type: Topic Question

2002



1583

All International Baccalaureate IB Topic Questions SL Biology

BIOLOGY

SL - IB

Key skills

Question 1.

Which statement best describes the action of peristalsis in the alimentary canal?

- A. Striated muscles contract to move the partially digested food in a wave-like movement along the alimentary canal.
- B. Circular muscles contract behind the partially digested food and the longitudinal muscles shorten.
- C. Skeletal muscle contractions force the food through the alimentary canal with valves preventing backflow.
- D. Longitudinal muscles contract behind the partially digested food and the circular muscles shorten.

[1 mark]

Question 2.

Which statement accurately describes the raising of heartrate by the cardio regulatory centre of the brain?

- A. Low blood pressure, high blood oxygen concentration, and high blood pH results in a nerve signal sent by the acceleratory centre to speed up heart rate.
- B. Low blood pressure, low blood oxygen concentration, and low blood pH results in a nerve signal sent by the acceleratory centre to speed up heart rate.
- C. High blood pressure, high blood oxygen concentration, and high blood pH results in a nerve signal sent by the acceleratory centre to speed up heart rate.
- D. High blood pressure, low blood oxygen concentration, and low blood pH results in a nerve signal sent by the acceleratory centre to speed up heart rate.

[1 mark]

Question 3.

A person is admitted to hospital after suffering a stroke. It was found that the suprachiasmatic nucleus in the hypothalamus of the brain was damaged by the event. This resulted in the pineal gland secreting less melatonin into the bloodstream.

Which of the following changes would be observed in the patient?

- A. Increased thirst and more frequent urination.
- B. Disrupted sleep patterns and increased irritability.
- C. Constantly feeling cold and weight gain.
- D. Fatigue and forgetfulness.

[1 mark]