

Where space is not provided, write your answers on a separate piece of paper.

The Structure and Function of the Brain and Nervous System

1 Which **one** of the statements about the human nervous system is correct? Shade **one** box only. [1]

A The autonomic nervous system is responsible for thinking.

B The central nervous system is part of the peripheral nervous system.

C The peripheral nervous system consists only of relay neurons.

D The somatic nervous system consists of sensory and motor neurons.

2 What is the function of the peripheral nervous system? [1]

3 Name the **two** branches of the autonomic nervous system (ANS). [2]

4 Read the text and then answer the question. [6]

Jake was walking home at night alone when, suddenly, he heard a sound behind him. His heart started to beat fast as he began to run towards the bus stop. From behind him, he heard a voice shout, "Wait for me Jake". As he turned around he saw his friend Will running along the road to catch up with him. Jake stopped and his breathing began to slow down.

Use your knowledge of the central nervous system and the autonomic nervous system to explain Jake's experience.

5 Briefly describe the James-Lange theory of emotion. [4]

Neuron Structure and Function

1 Which **one** of the statements about neurons is correct? Shade **one** box only. [1]

A Motor neurons carry information to the spinal cord.

B Relay neurons carry information from the motor cortex.

C Sensory neurons carry information to the brain.

D Sensory neurons always have longer axons than motor neurons.