**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ATAR 12 HUMAN BIOLOGY**

**ATHBY Task 1: In class Validation Quiz**

1. Using only the materials you will submit for your write-up, complete the discussion. (12 marks)

2. Write a conclusion that summarises the main finding(s) of the experiment. (2 marks)

3. With reference to your results:

a) Draw and correctly label (including the types of neurons) the pathway that controlled your response during the investigation. (4 marks)

b) Draw and correctly label (including the types of neurons) a spinal reflex arc. (4 marks)

c) Compare and contrast the nervous control methods a) and b) of movement. (4 marks)

d) Outline the benefits of saltatory conduction to the human body (2 marks)

e) Maddy was seeking to understand why multiple visual stimuli at once did not make her physical

reaction to the stimuli greater. She researched it, and found that the all or none response

explained the LACK of change in physical reaction. Use your knowledge of action potential to

explain to Maddy the all or none response, and how a message is conducted along an axon.

(8 marks)

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