

SECTION B**QUESTION 2**

2.1 Study the diagram below, which shows a reflex arc.



2.1.1 Give labels for each of the following:

- (a) Region **D** (1)
- (b) Neuron **E** (1)

2.1.2 Write down the LETTER of the part which:

- (a) Transmits impulses to the central nervous system (1)
- (b) Contains cerebrospinal fluid (1)

2.1.3 Explain the effect on the reflex action if part **B** was damaged. (2)

2.1.4 The nerve pathway in the above response is about 1,5 metres in length. A nerve impulse travels at 75 m s^{-1} .

Use this information to calculate the time taken for this reflex action to occur. Show all working. (3)

2.1.5 Explain the significance of a reflex action. (2)
(11)

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