

Q1.

Which of the following neurons carries electrical impulses towards the brain?

Shade **one** box only.

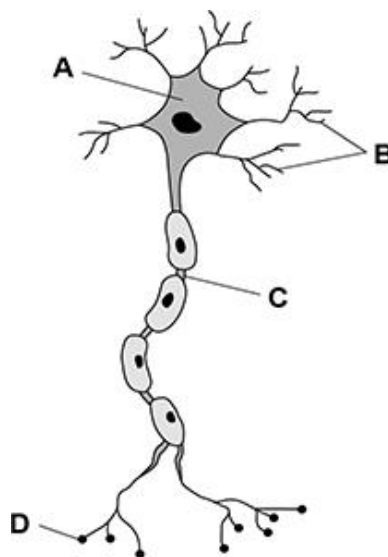
- | | |
|-------------------------|--------------------------|
| A Interneuron | <input type="checkbox"/> |
| B Motor neuron | <input type="checkbox"/> |
| C Relay neuron | <input type="checkbox"/> |
| D Sensory neuron | <input type="checkbox"/> |

(Total 1 mark)

Q2.

The figure below shows a typical motor neuron. Four components of the motor neuron are labelled A, B, C and D.

Typical motor neuron



Using the letters given in the figure above, correctly identify the components of the motor neuron in the table below.

	Component
A	
B	
C	
D	

(Total 4 marks)

Q3.

Describe **two or more** functions of the peripheral nervous system.

(Total 4 marks)

Q4.

Explain the process of synaptic transmission.

(Total 4 marks)

Q5.

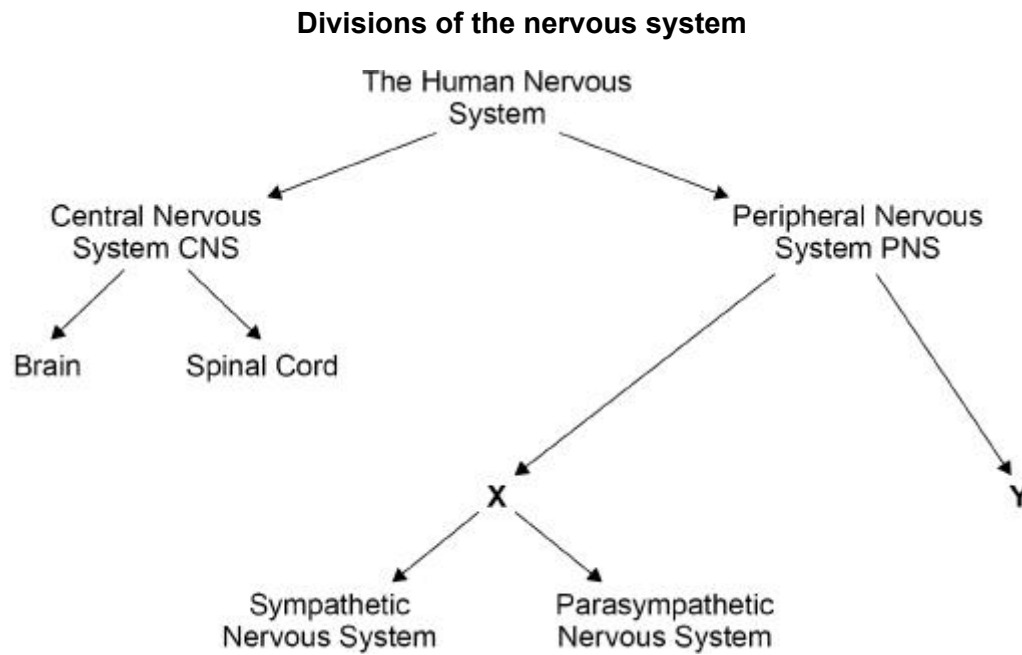
Describe the divisions of the nervous system.

(Total 6 marks)**Q6.**Describe the structure **and** function of a neuron.

(Total 6 marks)

Q7.

The diagram shows the divisions of the nervous system.



- (a) Name the division of the nervous system labelled **X** in the diagram above.

(1)

- (b) Name the division of the nervous system labelled **Y** in the diagram above. Explain the action of this part of the nervous system.

(3)

(Total 4 marks)

Q8.

A survey of hospital patients has found that a new drug, Zapurpain, is as effective as other pain medication.

Zapurpain acts like an inhibitory neurotransmitter at the synapse.

Explain how Zapurpain might affect the process of synaptic transmission through inhibition.

(Total 4 marks)