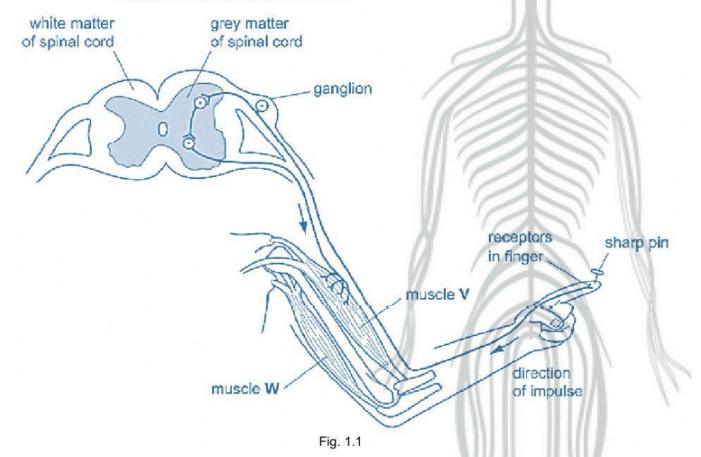
## CHAPTER 14 COORDINATION AND RESPONSE

## CHAPTER 14.1 Nervous control in humans

 Fig. 1.1 shows a reflex arc involving a finger and a muscle in arm. After touching the sharp pin, the arm produces a response.



(a) Reflex arc is how impulse transmission is sent over, using the nervous system. To actually understand the nervous system, we need to make sure that we understand the component involved in the system.

Answer the following questions to test your understanding.

## (i) Impulse can be defined as ...

chemical signal that passes along nerve cells electrical signal that passes along nerve cells messages that contained neurotransmitter

## (ii) Cells that responsible to transmit nerve impulses are

sensory neuron spinal cord relay neuron motor neuron synapses



nerve cells brain gland  (iv) The function of the CNS is to  stimulating the impulse transmit the impulse integrate the impulses  (v) In Fig. 1.1, the sharp pin will produce pain when is touch pain is considered as receptor impulse stimulus effector  (vi) In Fig. 1.1, the pain received after the finger touch the stoy effector stimulus receptor neuron  Nervous System   Animation explained  Please watch the video.		
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Impulses that is transmitted will be received at the central nervous system (CNS). The CNS are consisting of  $\dots$ 

