**Unit B6 Statements**

Nervous system and Reflex actions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1** | Neurons transmit electrical … |  | fatty sheath, which insulates the neuron from neighbouring cells and increases the speed of transmission of a nerve impulse |  |
| **2** | An axon is a long … |  | impulses when stimulated |  |
| **3** | Some axons are surrounded by a … |  | extension of the cytoplasm in a neuron and is surrounded by cell membrane |  |
| **4** | There are gaps between adjacent neurons called … |  | nervous system (CNS) is made up of the spinal cord and brain |  |
| **5** | The nervous system uses electrical impulses for fast, … |  | synapses and that impulses are transmitted across them |  |
| **6** | In humans and other vertebrates the central … |  | short-lived responses including simple reflexes |  |
| **7** | Simple reflexes produce … |  | to motor neurons through relay neurons |  |
| **8** | Reflex actions help to ensure … |  | (e.g. stepping, grasping, sucking), pupil reflex, knee jerk and dropping a hot object |  |
| **9** | Impulses are passed from sensory neurons … |  | rapid involuntary responses to stimuli |  |
| **10** | The nervous pathway of a spinal reflex arc includes … |  | that the simplest animals respond to a stimulus in a way that is most likely to result in their survival, |  |
| **11** | Examples of simple reflexes in humans, include newborn reflexes … |  | A receptor, sensory neuron, relay neuron, spinal cord, motor neuron and effector |  |
| **12** | The CNS (brain and spinal cord) is motor neurons)… |  | connected to the body via the peripheral nervous system (PNS) (sensory and |  |

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| **1** | Neurons transmit electrical … |  | fatty sheath, which insulates the neuron from neighbouring cells and increases the speed of transmission of a nerve impulse | 3 |
| **2** | An axon is a long … |  | impulses when stimulated | 1 |
| **3** | Some axons are surrounded by a … |  | extension of the cytoplasm in a neuron and is surrounded by cell membrane | 2 |
| **4** | There are gaps between adjacent neurons called … |  | nervous system (CNS) is made up of the spinal cord and brain | 6 |
| **5** | The nervous system uses electrical impulses for fast, … |  | synapses and that impulses are transmitted across them | 4 |
| **6** | In humans and other vertebrates the central … |  | short-lived responses including simple reflexes | 5 |
| **7** | Simple reflexes produce … |  | to motor neurons through relay neurons | 9 |
| **8** | Reflex actions help to ensure … |  | (e.g. stepping, grasping, sucking), pupil reflex, knee jerk and dropping a hot object | 11 |
| **9** | Impulses are passed from sensory neurons … |  | rapid involuntary responses to stimuli | 7 |
| **10** | The nervous pathway of a spinal reflex arc includes … |  | that the simplest animals respond to a stimulus in a way that is most likely to result in their survival, | 8 |
| **11** | Examples of simple reflexes in humans, include newborn reflexes … |  | A receptor, sensory neuron, relay neuron, spinal cord, motor neuron and effector | 10 |
| **12** | The CNS (brain and spinal cord) is motor neurons)… |  | connected to the body via the peripheral nervous system (PNS) (sensory and | 12 |