

Foundation Combined — only core Foundation content included.

**Q1. Name the THREE types of neurone and state where each is found in the nervous system.**

[3 marks]

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**Q2. Describe the complete pathway of a reflex arc when a person's hand touches a hot object.**

[4 marks]

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**Q3. Explain why reflex actions are faster than voluntary actions.**

[2 marks]

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Total: 9 marks

**Q1 (3 marks)**

*Name the THREE types of neurone and state where each is found in the nervous system.*

- Sensory neurone: carries impulses from receptors to CNS [1]
- Relay neurone: carries impulses within the CNS (brain and spinal cord) [1]
- Motor neurone: carries impulses from CNS to effectors [1]

**Q2 (4 marks)**

*Describe the complete pathway of a reflex arc when a person's hand touches a hot object.*

- Thermoreceptors in skin detect heat stimulus [1]
- Sensory neurone carries impulse to spinal cord [1]
- Relay neurone carries impulse through spinal cord [1]
- Motor neurone carries impulse to effector (arm muscle) → hand moves away [1]

**Q3 (2 marks)**

*Explain why reflex actions are faster than voluntary actions.*

- Reflex arc does not involve the brain — signal routed through spinal cord only [1]
- Shorter neural pathway / fewer synapses → faster response [1]