Question 30 c marking key

1. **The cerebellum.** fine motor skills and the coordination of body movements(1 mark)
2. **Brainstem -**. Functions of the brainstem include those needed for survival (breathing, digestion, heart rate, blood pressure) (1 mark)and for arousal (being awake and alert)(1 mark).

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| Part of Brain stem | function |
| **Mid brain** | Relays auditory and visual information to other parts of the brain(1 mark).  Controls eye movement (1 mark). It also helps in the motor coordination of the body(1 mark) |
| **Pons** | Relays information between the cerebellum and cerebrum(1 mark  It also helps in the control of sleep(1 mark) |
| **Medulla oblongata** | It contains the cardiac, respiratory and vasomotor centers(1 mark). Or they can say it is responsible for maintaining vital body functions, such as breathing and heart rate. |

1. **The Diencephalon** contains the thalamus and hypothalamus

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| Parts | function |
| **Thalamus** | Taking in sensory information and then passing it on to the cerebral cortex(1 mark). The cerebral cortex also sends information to the thalamus, which then sends this information to other systems(1 mark). |
| **Hypothalamus** | Maintenance of homeostasis(1 mark). It controls the release of very important hormones(1 mark). It is involved in, temperature regulation(1 mark), control of food and water intake(1 mark), sexual behaviour(1 mark) and reproduction(1 mark), |

1. **The cerebrum**. It controls thinking(1 mark), voluntary movements(1 mark), language(1 mark), reasoning(1 mark), and perception(1 mark).

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| The maximum is 12 marks |