

Central Nervous System

Identify the part of the brain based on the function:

Brain stem, Cerebrum and Cerebellum

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|--|---|
| | Makes up about 85% of the brain tissue; divided into L and R hemispheres; specific functions are associated with specific cerebral lobes |
| | Second largest part of the brain that acts as a coordinating centre for skeletal and muscular movement |
| | Relays messages through the upward and downward pathways between the spinal cord and the brain; consists of the medulla oblongata, pons, and mid-brain. |

Fill in the blanks (the answers can be found above)

The brain is divided into three parts: _____, _____ and _____

The cerebrum is divided into two parts: _____ and _____

The brain stem consists of _____, _____ and _____

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Cerebrum

The largest region of the brain is the _____ where all conscious activities depend on.

Confined in the _____ are the written and spoken language, scientific skills, number skills and analytic thought processes.

The appreciation of art and music, spatial relationship, imagination and insight are specialization of the _____.

The cerebrum also controls the body's _____.

Decision-making and problem-solving are two of its functions.

| | | | |
|-----------------|-----------|----------|------------------|
| Left hemisphere | movements | cerebrum | Right hemisphere |
|-----------------|-----------|----------|------------------|

Cerebellum

Located below the cerebrum is the cerebellum which the second largest region of the brain.

It is the processing center for the following:

- Coordination and refinement of muscular movements
- Balance, precision and timing of movements
- Body positions
- Processes sensory impulses from the body, head and limbs

Brain Stem

The brain stem connects the brain with the _____.

The lower segment of the brain stem is the _____.

| | |
|---------|-------------|
| medulla | Spinal cord |
|---------|-------------|

The medulla's responsibilities are:

- Conveying messages between the spinal cord and the brain
- Transmit messages from cranial nerves associated with it and the cerebrum
- Controls heart rate, respiratory rare and blood pressure
- Certain reflexes such as sneezing and coughing

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Spinal Cord

The spinal cord has _____ of nerves that provide a vital link in the transfer of sensory and motor information between the brain and the rest of the body.

It is also responsible for _____

The backbones or the _____ are the bones at the back of your neck which protect your spinal cord from injury.

A person with damaged spinal cord loses the ability to move some body parts.

| | | |
|----------------|-----------|----------|
| Reflex actions | vertebrae | 31 pairs |
|----------------|-----------|----------|