**Hand-out 2**

**The Brain**

* The brain is a complex **central processing centre** of the nervous system.
* It receives incoming information from **sense organs** and **responds** by initiating appropriate actions.
* It is made up of billions of **neurons**.
1. **Cerebral Cortex**
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_ consists of a thick outer surface called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (3mm deep) which forms the largest and most complex part of the brain.
* The cerebral cortex is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to **increase its surface area**, allowing for more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to be present on the surface and maximising the number of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between neurons.
* The cerebrum is split by a deep **cleft** into two halves called **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.
* The **\_\_\_\_\_\_\_\_\_\_** hemisphere processes information from the **\_\_\_\_\_\_\_\_\_\_\_** **visual field** and controls the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** of the **body** (the reverse is true for the right hemisphere).
* The two cerebral hemispheres are connected by a large **bundle of nerve fibres** called the **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.** This structure is found deep within the brain. Its function is to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between the two sides of the brain.

**Location of the Corpus callosum**



**Localisation of Brain Function in the Cerebral Cortex**

|  |  |
| --- | --- |
| **Area** | **Function** |
|  |  |
|  | analyses and interprets impulses from the body’s receptors |
| **motor** |  |