

Chapter 12 - Central Nervous System

Objective 1. Describe the overall structure of the brain.

Regions of the Brain:

1. Cerebral hemispheres
2. Diencephalon (thalamus, hypothalamus, epithalamus)
3. Brain stem
4. Cerebellum

The cerebral hemispheres and cerebellum have:

1. outer "bark" or cortex of gray matter (neuron cell bodies)
2. a middle region of white matter (myelinated)
3. an inner gray matter core of brain nuclei.

Objective 2. Describe the ventricles of the brain.

Continuous with each other and with the central canal of the spinal cord. Filled with cerebrospinal fluid (CSF) and lined by ependymal cells. Paired lateral ventricles (C-shaped) located deep within each cerebral hemisphere. Lateral ventricles connect with the narrow third ventricle in the diencephalon. Third ventricle is continuous with the fourth ventricle (in the area of the brainstem), and the fourth ventricle is continuous with the central canal of the spinal cord. Three openings connect the fourth ventricle with the subarachnoid space (a fluid filled space surrounding the brain)

Objective 3. Define gyri, sulci, and fissures.

Cerebral Hemispheres: Form the superior part of the brain, about 83% of total brain weight. Divided into lobes (frontal, parietal, temporal, occipital, insula). Nearly the entire surface is marked by elevated ridges called **gyri (gyrus, singular)** which are separated by grooves called **sulci (sulcus, singular)**. The deepest of the grooves are called **fissures**. Median longitudinal fissure separates the hemispheres, and the transverse fissure separates the hemispheres from the cerebellum. Three basic regions to each hemisphere: outer cerebral cortex of gray matter, internal cerebral white matter, basal nuclei.

Objective 4. Describe the functional areas of the cerebral cortex.

Cerebral Cortex: Enables us to perceive, communicate, remember, understand, initiate voluntary movements **conscious behavior**. Composed mainly of neuron cell bodies and unmyelinated fibers. About 40% of the total brain mass. Specific motor and sensory functions are localized in discrete cortical areas called **domains**. Many higher mental functions, such as memory and language, appear to have overlapping domains.

Objective Test And Answers On Nervous System

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