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DIVISIONS OF DEVELOPING BRAIN

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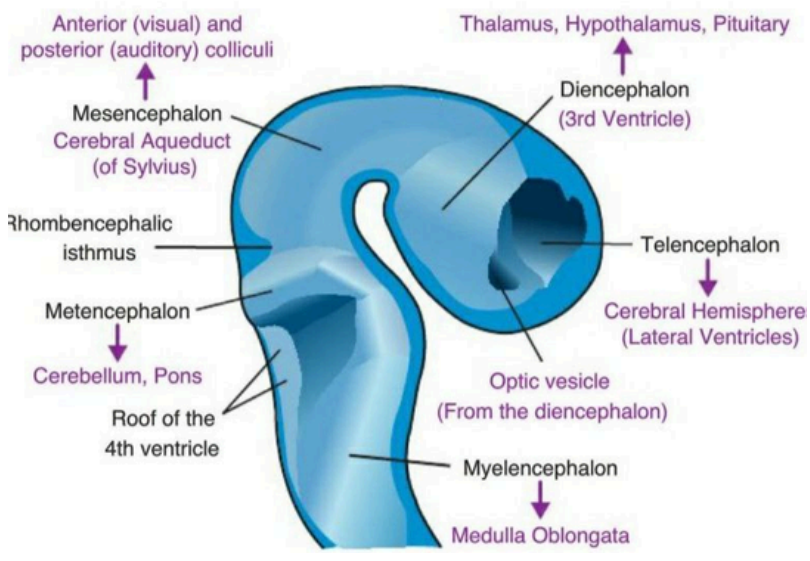
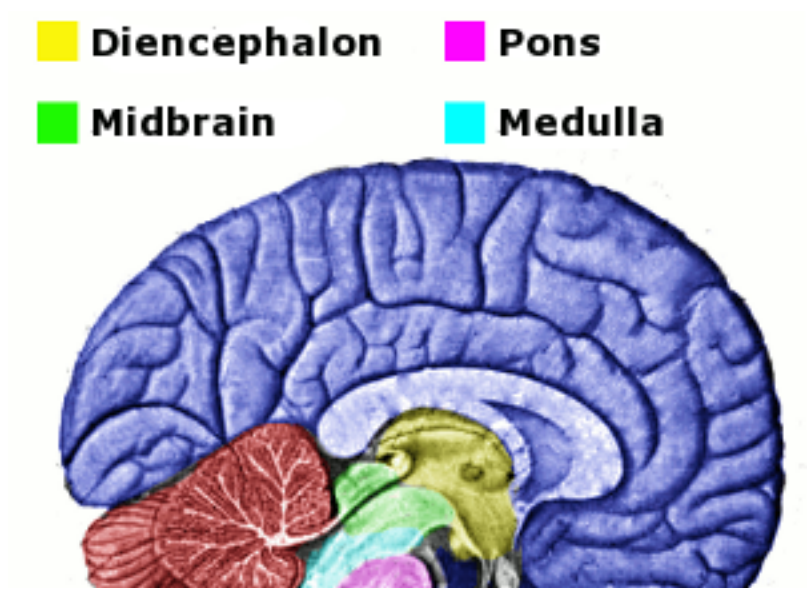
DIVISIONS OF DEVELOPING BRAIN

The brain is split into left and right hemispheres by a band of fibers called the corpus callosum.

- *There are three major divisions of the brain, with each division performing specific functions.*
- *The major divisions of the brain are the forebrain (or prosencephalon), midbrain (mesencephalon), and hindbrain (rhombencephalon).*

VISUAL REPRESENTATION





DIVISIONS OF DEVELOPING BRAIN

devisions and sub-devisions

- ***FOREBRAIN (PROSENCEPHALON)-*** *The forebrain is by far the largest brain division,The forebrain consists of two subdivisions called the telencephalon and diencephalon.*
- ***TELENCEPHALON-*** *These lobes include the frontal lobes, parietal lobes, occipital lobes, and temporal lobes.* ***Frontal Lobes:*** *The prefrontal cortex, premotor area, and motor area of the brain.*
- ***Parietal Lobes:*** *Responsible for receiving and processing sensory information.*
- ***Occipital Lobes:*** *Responsible for receiving and processing visual information from the retina.*

DIVISIONS OF DEVELOPING BRAIN

- ***Temporal Lobes:*** *Home of the limbic system structures, including the amygdala and hippocampus.*
- ***DIENCEPHALON-*** *The diencephalon regulates a number of functions including autonomic, endocrine, and motor functions.*
- ***Thalamus:*** *A limbic system structure that connects areas of the cerebral cortex that are involved in sensory perception and movement .*
- ***Hypothalamus:*** *Acts as the control center for many autonomic functions including respiration, blood pressure, and body temperature regulation.*
- ***MIDBRAIN (MESENCEPHALON)-*** *connects the forebrain to the hindbrain.components include: Tectum, Cerebral peduncle and Substantia nigra.*

MCQ

Question: ***In the 5th embryonic week, flexures develops between the metencephalon and myelencephalon oriented in the opposite direction, this 3rd flexure is known as?***

A. Cerebellar flexure
B. Pontine flexure
C. Cerebral flexure
D. Hepatic flexure

Answer: ***(B) Pontine flexure***