

Forebrain

a) **Olfactory lobe** - Sense of smell

b) **Cerebrum** - Largest part of brain (80%)

- It has two cerebral hemispheres separated by a longitudinal cerebral fissure
- These cerebral hemispheres are attached inferiorly by a nerve band Corpus Callosum
- Outer grey matter and inner medulla is white
- Cerebral Cortex has folding. These infoldings are Sulci and elevations are Guri
- Both hemispheres have ventricles which are filled with Cerebrospinal fluid

Functions

- I. Frontal lobe - Intelligence, movement of facial muscles like chewing, swallowing, movement of tongue and lips
- II. Parietal lobe - Centre for taste; controls cutaneous (skin) senses like pain, touch, temperature, pressure
- III. Temporal lobe - Controls hearing
- IV. Occipital lobe - Perception of sight

c) **Diencephalon**

i) **Epithalamus** - Pineal body is attached (endocrine gland)

ii) **Thalamus** - Relay centre of many senses

iii) **Hypothalamus** - Thermostat (37 degree Celsius)

- Homeostasis
- Hypothalamus controls secretions of Pituitary gland (endocrine gland)
- It is also the control centre for hunger, satiety, sleep, thirst, fatigue, sex, sweating, body temperature and emotions

Midbrain

Crura Cerebri - Connects Hindbrain to Forebrain

Corpora Quadrigemina -

- ~ Upper 2 lobes - Sight reflexes
- ~ Lower 2 lobes - Auditory reflexes

Hindbrain

a) **Cerebellum**

- Second largest part (12.5%)
- 2 Cerebellar hemispheres which are connected with the help of Vermis

Function - It maintains posture of the body during walking, riding, jumping, catching, etc. ; Co-ordiante muscular activity of the body

b) **Pons Varolii** - (Pons means bridge)

- It is Pnuemotaxic centre - Cut off centre of inhalation
- Connects Cerebellum, Medulla and Cerebrum



Hindbrain (cont)

c) Medulla Oblongata

- It continues behind into Spinal Cord
- Controls many involuntary actions like swallowing, vomiting, coughing, sneezing, salivation, peristalsis
- Also regulates
 - (i) Breathing rate - Respiratory centre
 - (ii) Heartbeat rate - Cardiac centre
 - (iii) Blood pressure regulation

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Not published yet.
Last updated 14th June, 2022.
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