

### 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

### Forebrain (cont.)

- 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

- 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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