**Brain and Spinal Cord Notes**

***Meninges***

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- membranes located between bone and soft tissues of the nervous system

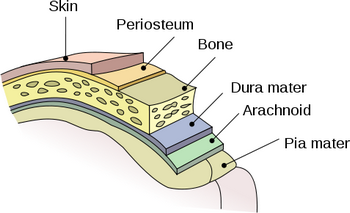
3 Types of Meninges:

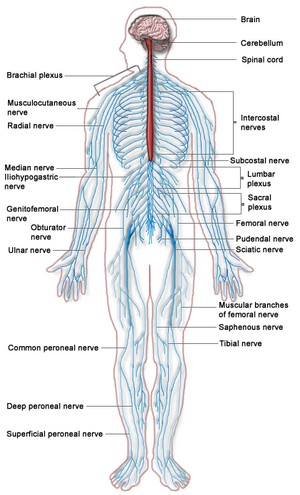
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = outmost layer, blood vessels, nerves

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = no blood vessels, located between

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = contains many nerves and blood vessels to nourish cells of brain and spinal cord

\*Cerebrospinal fluid =

[](http://commons.wikimedia.org/wiki/File:Meninges-en.svg)



**9.12 Spinal Cord**

- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, passes from brain down through the vertebral canal

- has \_\_\_\_\_\_\_\_ segments, each with a pair of spinal nerves

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ enlargement = supplies nerves to upper limbs (neck)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ enlargement = supplies nerves to the lower limbs (lower back)

FUNCTION:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ tracts = carry sensory info to the brain  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ tracts = carry motor impulses from the brain to the muscles

Spinal reflexes – reflex arcs pass through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_

**9.13 Brain**

Three Major Parts:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – largest, sensory and motor functions, higher mental function (memory, reasoning)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – coordinate voluntary muscles

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ – regulate visceral functions

**DESCRIBE THE FUNCTIONS:**

1. Cerebral Hemispheres

2. Corpus Callosum

3. Convolutions / Sulcus / Gyrus

4. Transverse / Lateral / Longitudinal Fissures