Study Guide: Anatomy of the Brain

* Structures of the Brain
  + Basic Brain
    - How big is the brain? How heavy is the brain?
    - What are the seven major sections?
  + Developmental
    - What does the brain start out as?
    - What does the brain look like after 3 weeks?
      * What are the names of the sections?
    - What does the brain look like after 6 weeks?
      * What are the names of the sections?
  + Spaces
    - What are the ventricles of the brain?
      * Are they hollow?
      * How are they involved with CSF?
    - How do they connect?
  + Meninges
    - What are the three layers of the cranial meninges?
    - What are the similarities/differences to the spinal meninges?
    - Where is CSF produced?
      * How much is produced every day?
      * What is a BBB? Why is it important?
      * What happens when an adult patient has to much CSF? What about an infant?
* The Brainstem
  + Medulla Oblongata
    - How many cranial nerves are there?
      * What are their jobs?
      * What do they do?
    - What does it look like?
    - Where is it?
    - Basically, what does it do?
    - What are the three groups of nuclei that make the medulla oblongata function?
  + Pons
    - What does it look like?
    - Where is it?
    - Basically, what does it do?
    - What is the other major part of the brain it works with?
* The Brainstem (cont)
  + The Midbrain
    - What does it look like?
    - Where is it?
    - Basically, what does it do?
    - What functions does it perform with sleep?
    - What are the major sections?
* The Cerebellum
  + Function and structure
    - What does it look like?
    - Where is it?
    - Basically, what does it do?
    - What are the folds called?
      * Why does it contain folds?
  + Where does it connect?
* The Limbic System
  + What are the structures of the limbic system?
  + Why is it not one organ?
  + What are the functions?
  + What does each structure do?
* The Diencephalon
  + What are the three major nervous structures in the diencephalon?
    - What is the major gland that is associated with these structures?
  + What does the epithalamus do?
  + What does the hypothalamus do?
  + What does the thalamus do?
* The Cerebrum
  + What are the lobes of the cerebrum?
  + What are the hemispheres?
    - How do they connect?
      * What is the major structure and nerves?
    - How do sections of the brain communicate through nerves?(What are the names of the nerves)
  + What are the major motor and sensory areas?
  + What is an association area?
  + What is an integration area?
  + What are the major integration areas?
  + What is an EEG?
    - What is it used for?