Biology of the Brain Part II – Study Questions

1. Label the picture of the brain below.

2. The brain is divided into 3 major areas or regions. What are they and what type of “functions” are carried out in these areas?

3. What does the term “localization” mean?

4. What does the term “lateralization” mean?

5. List 3 functions of each of the lobes of the brain found below:
   a. Frontal Lobe
      i. ______________________________
      ii. ______________________________
      iii. ______________________________
   b. Parietal Lobe
      i. ______________________________
      ii. ______________________________
      iii. ______________________________
   c. Temporal Lobe
      i. ______________________________
      ii. ______________________________
      iii. ______________________________
   d. Occipital Lobe
      i. ______________________________
      ii. ______________________________
      iii. ______________________________

6. What might happen if you have damage to the “brain stem”?

7. What does your “cerebellum”?

8. How is the left hemisphere of the cerebral cortex different from the right hemisphere?

9. What is the limbic system, what does it do for us, and how do we control our limbic system?

10. What is the area of the brain that controls whether we are awake or asleep?

11. What major structure connects the right and left hemispheres? For more points, what else can you tell me about it?

12. What does an EEG measure?

13. What is an MRI and does it work?

14. What is a PET scan and how does it work?

15. What is a sulci and what is a gyri? Why are these important?