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Unit 3 Essay Questions

1. Genotype is the genetic map of a person like whether or not that person will also develop the same mental issues as their parent, their temperament, etc. Phenotype is about the person's physical appearance, or what they physically look like. Examples of these would include eye color, the shape of individuals' faces, etc.
2. Charles Darwin's theory of natural selection basically states that living things that are able to handle their environment will be able to survive and repopulate, but those that lack these tools will die off and cease to exist. I can agree with this because even in today's society I see so many people dying off and it's mostly due to living in poverty and not having the tools to get out of it.
3. When studying human behavior, behavior geneticists use twin and adoption studies to research questions of interest. In twin studies, it shares data on how expectant to be of an individual receiving a trait from their parents. In the adoption studies, it takes the data from the twin study and applies it to see how it relates to their biological study. These studies help provide a better understanding of the importance of genes and environment for the given trait.
24. The left hemisphere deals more with your language and speaking, but the right hemisphere deals with your hand-to-eye coordination, rhythm timing imagery, etc. The left hemisphere has to

be quiet in order for there to be a true balance. Her research shows that if you are able to imagine your body function it would mean that one side of the brain has to be quiet in order for the other hemisphere to function in peace. I believe it can because there have been many times that I used this in order to get the basic everyday tasks done, over time after using this method I was able to see a lot of improvement to where I didn't even need to practice this anymore. This method is perfect for people who have a hard time balancing tasks or activities, or for people that seem to do too many things at once.

25. Franaligi is what some psychologists used when studying the brain because it was believed that the brain was actually broken up into different parts. Some strengths of case studies are that it gives the researcher a different point of view of the situation, and they are able to dig deeper into the specifics of the behaviors that occurred. Some weakness is that since the study isn't being researched at present time, the researcher will have a harder time pinpointing when and why certain behaviors occurred. Yes, nature and nurture can help shape personality, in certain situations whether it's trauma-induced or if it helped enlighten the person affected, based on their environment individuals will shape their personality in order to blend with society. If an individual had a lack of nurture from their parent then they will most likely end up with a closed-off personality.

4. Chromosomes are basic genetic materials that are made up of DNA; DNA is a helix-shaped molecule that comes in pairs and inside those pairs is a sequence of DNA called genes. All in all, chromosomes, genes, and DNA are all made up of each other, they are all one and the same. You won't find one without the other, if so then that gene will develop into a mutated gene.

5. Glial cells provide a temporary structure on the nervous system and help keep the neurons aligned so that neuronal communication, provides a protective barrier for neurons, sends nutrition and waste products, and filters immune responses. These cells are essential because they help guide different neurons to their proper locations.
7. Membrane potential provides energy to pass that electrical signal across the membrane. The resting potential is where the energy is stored until it receives that signal from the neurons. What it means is that action potential is an all-in-or-all-out phenomenon in which the signal that is received from another neuron can be either good or bad in order to reach the entryway of applying energy to a particle or system.
8. The two branches of the somatic nervous system are the sensory and motor information that goes to and from the CNS. Motor neurons carry the instructions from the CNS and the Sensory carries sensory information to the CNS. Some disadvantage of flight or fight is that during that time your body is deciding the safest thing to do, you are basically left open and vulnerable to whatever is causing your flight or fight reflexes. This response is also not really adaptive because based on situations from our ancestors to know there's not much physical danger but more of a psychological danger, but your body has decided that it is a real danger so you act according to your instinctive choice.
9. The corpus callosum is the connection between the left and right hemispheres of the brain, its main function is to allow communication between the two hemispheres and for one side to share the information being processed with the other side letting the two remain balanced.