Brain Physiology Questions

1) What role does GABA play in the nervous system? Please be descriptive.
2) Describe the effect that alcohol has on the normal functioning of GABA receptors.
3) Think of a time when you witnessed someone under the influence of alcohol. What physical behaviors are characteristic of intoxication? How might you explain these characteristics using the images you just viewed?
4) In light of these facts, why is it a bad idea to drive while intoxicated? How might alcohol affect one's driving ability?
5) Describe how cocaine's ability to block reuptake pumps for dopamine causes an intense feeling of euphoria.
6) Why does one need to take higher and higher doses of cocaine in order to feel the same sense of pleasure from the drug?
7) Describe normal dopamine function.
8) How are the natural levels of dopamine altered by use of opiates?

Brain Wave Questions

1) Describe the difference between amplitude and frequency in regards to brain waves.
2) Describe the brain waves of an individual who is "brain dead".
3) List the dominant brain wave we would find in individuals performing the following activities:a) Sleeping
b) Under Stress
c) Relaxing with eyes open
d) Concentrating

Virtual Brain Surgery Questions

1) Why does the hair need to be shaved from the head?
2) Why are so many scrubbings and drapes necessary?
3) Why is a saline solution used during drilling through the skull?
4) What portion of the brain is being stimulated?
5) What condition is the patient exhibiting?