Nam	ne:			Hour:
		Nervous	System Review	
	n function of the Nervous be the 3 major functions of t	-	m.	
What is	the difference between se	nsory and motor	neurons?	
What ty	pe of neurons would you a	lso call afferent?	What about efferent	?
	t neurons bring information tion from the			Efferent neurons bring
	sions of the Nervous Sys the CNS made out of? Wh		de out of?	
	o the following divisions of Central Nervous System:	the nervous syste	em control?	
-	Peripheral Nervous System	า:		
-	Somatic Nervous System:			
	Autonomic Nervous Syster	m:		
-	Sympathetic:			
-	Parasympathetic:			
Describ	cture and Function of a Note the following parts of a note Dendrites:			
-	Cell Body:			
-	Nucleus:			
	Axon Hillock:			
-	Myelin Sheath:			
	Axon:			

- Dendrites, cell body, nucleus, axon hillock, myelin sheath, axon, nodes of ranvier, axon terminal, synapse					
Synapse State of the state of t					
D. Functions of Glial Cells What are glial cells?					
What is the purpose of the following glial cells? - Astrocytes:					
- Microglial cells:					
- Ependymal cells:					
- Oligodendrocytes:					
- Schwann cells:					
- Satellite cells:					
What is the difference between oligodendrocytes and schwann cells?					
E. Action Potentials  Describe the 5 steps in an action potential, in each step be sure to note what the overall charge is in the axon and outside, where the potassium and sodium area, and what channels may have opened.					
When is the only time that a neuron is "ready" for an action potential (or another one) to occur?					

Nodes of Ranvier:

Label the following parts of a neuron:

Axon Terminal:

Synapse:

	f a Synapse and Neurotransmitters impulse signal turns into a	message and wil
	impulse signal in the next neuron.	message and will
What/where is the synaptic cl	eft?	
What are neurotransmitters?		
How do neurotransmitters ge	t to the synaptic cleft?	
After neurotransmitters have	crossed the synapse, what happens to them?	
What do the following neuroton - Acetylcholine:	ransmitters do?	
- Epinephrine:		
- Norepinephrine:		
- Cholintense:		
- Serotonin:		

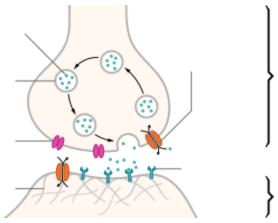
In the following scenarios, which neurotransmitter(s) (from the list above) would you expect to be in the synapse?

- You are giving a speech in class and you are very nervous:
- You are sleeping and your heart rate has decreased:
- You are at a championship game and you are playing hard:

Label the following parts of a synapse:

Dopamine:

- Terminal knob, neurotransmitter vesicles, neurotransmitters, synaptic cleft, postsynaptic membrane, receptors



## G. Reflex Arc

Describe the reflex arc, in doing so make sure to use the following terms and put them in the correct order:

- Effect, Stimulus, Afferent Sensory Neuron, Efferent Motor Neuron, Interneuron, Brain, Spinal Cord

## **H. Short Answer**

For the REVIEW, please write a response to ALL THREE choices below. On the test you'll only need to respond to 2 of the 3.

- A. Describe the five major steps in an action potential AND include what the signal turns into in order to cross the synapse.
- B. Describe the parts of a synapse AND describe a situation in which norepinephrine would be released.
- C. Describe the steps in the reflex arc AND describe an example of when it might save your life.