The	<u>Synapse</u>			
	. Homeostatic imbalance: an autoimmune disease that usually affects young adults and			
	destroys CNS myelin sheaths. What is this disease?			
2.	2. Neurons are functionally connected by, junctions that mediate			
	information transfer			
3.	3 neuron- neuron conducting impulses toward synapse (sends			
	information)			
4.	neuron- neuron transmitting electrical signal away from synapse			
	(receives information)			
	a. In the PNS, this could be a neuron, cell, or cell			
5.	What are the 2 types of synapses?			
6.	Which synapse is most common, is typically composed of 2 parts, and becomes a			
	chemical across the synapse			
	a. What are the 2 parts of this synapse			
7.	Which synapse is least common, where neurons are electrically coupled and are joined			
	by gap junctions that connect the cytoplasm			
8.	Graded potentials vary in strength based on what 2 things?			
	a of neurotransmitter			

	b.	neurotransmitter stays in the cleft
9.	What a	are the 2 types of postsynaptic potentials
	a.	()- open
		chemically gated Na+ channels causing a depolarization, allowing AP to occur
	b.	()- open
		chemically gated channels to allowed entrance/exit of ions to cause
		hyperpolarization
		i. This makes neuron MORE/LESS negative
10	. T/F A	single EPSP cannot induce an AP, but EPSPs can summate (add together) to
	influer	ice postsynaptic neuron
11.	T/F IP	SPs can also summate, but move the neuron further from threshold
12	. What a	are the 2 types of summations
	a.	one or more presynaptic neurons transmit
		impulses in rapid-fire order
	b.	postsynaptic neuron is stimulated by large number
		of terminals simultaneously

13. How are neurotransmitters classified?

14. There	e are 2 broad ways to cla	ssify neurotransmitters according to function
a.	Effects	
	i	causes depolarization
	ii	causes hyperpolarization
b.	Actions	
	i	bind to and open ion channels
	ii	act through intracellular second messenger
	molecules (bind	ding doesn't result in immediate response)
CNS 1. Match	n with the correct definition	on!
a.	Nerve	1. fluid-filled chambers that are continuous to one another
b.	Tract	2. myelinated and nonmyelinated axons
C.	Ganglion	3. a bundle of axons/ dendrites outside the CNS
d.	Nucleus	4. a bundle of axons/ dendrites inside the CNS
e.	Gray matter	5. short, nonmyelinated neurons and cell bodies
f.	White matter	6. collection of perikaryons and dendrites inside the CNS
g.	Ventricles	7. collection of perikaryons and dendrites outside CNS
2. T/F T	he cerebral hemispheres	s account for 83% of brain mass

3.	What are the surface markings on the cerebrum		
	a ridges		
	b shallow grooves		
	c deep grooves		
4.	What are the basic regions of each hemisphere		
	a. Superficial matter		
	b. Internal matter		
	c within white matter		
5.	What is the executive suite of the brain		
6.	What is the site of the conscious mind, awareness, sensory perception, voluntary motor		
	initiation, communication, memory storage, and understanding?		
7.	What are the 3 functional areas of the cerebral cortex?		
	a areas- control voluntary movement		
	b areas- conscious awareness of sensation		
	c areas- integrate diverse information		
8.	Each hemisphere is or is concerned with opposite side of the brain		
9.	What is the division of labor between hemispheres?		