The Nervous System II: Ion Channels

	are calledacting neurotransmitters.
į	a.
1	b.
•	c.
•	d.
	a. The binding of ACh opens ion channels in the dendrites or cell body that
]	permits both and to move through them.
1	b. Which ion would move into the cell? out of the cell?
•	c. Which ion has the greatest electrochemical gradient?
•	d. The net movement of these two ions would do what to the cell?
•	e. This would be called an
]	postsynaptic potential, or
	a. An inhibitory postsynaptic potential (IPSP) causes a neuron to
1	b. An example of a neurotransmitter that causes an IPSP is
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	This is known as a/an	- acting	
	neurotransmitter.		
	b. Norepinephrine is known as the	messenger.	
	c. The receptor is coupled to the ion channel by a		
5.	a. This activates an enzyme which induces the production of	f a	
	messenger.		
	b. An intracellular enzyme is activated and	the ion channel	•
	c. As a result of this sequence of events, what channels are c	closed?	
	d. What does this do to the neuron?		
6.	Name three neurotransmitters that can only act indirectly.		
	a.		
	b.		
	с.		
7.	Which of the four neurotransmitters mentioned in question 1	1 can also act indirectly?	
	a.		
	b.		
	с.		
8.	Which one of the four neurotransmitters mentioned in questi	ion 1 can	
	only act directly?		