

CHAPTER 11	Neurotransmitters and Their Functions Quiz Answer Key	BLM 11.1.15A
ANSWER KEY		

Neurotransmitter	Function	Effects of abnormal production
<u>dopamine</u>	<ul style="list-style-type: none"> ▪ affects the brain synapses in the control of body movements ▪ is linked to <u>sensations</u> of pleasure, such as eating 	<ul style="list-style-type: none"> ▪ excessive production linked to schizophrenia, a disorder in which the individual's perception of reality is greatly distorted ▪ inadequate production linked to <u>Parkinson's</u> disease, a progressive disorder that destroys neurons, causing tremors, slurred speech, and other coordination problems
<u>serotonin</u>	<ul style="list-style-type: none"> ▪ regulates <u>temperature</u> and sensory perception ▪ is involved in mood control 	<ul style="list-style-type: none"> ▪ inadequate amounts in the brain synapses linked to <u>depression</u>
<u>endorphins</u>	<ul style="list-style-type: none"> ▪ act as natural <u>painkillers</u> in synapses in the brain ▪ also affects emotional areas of the brain 	<ul style="list-style-type: none"> ▪ deficiency linked to an increased risk of <u>alcoholism</u>
<u>norepinephrine</u>	<ul style="list-style-type: none"> ▪ is used by the brain and some autonomic neurons ▪ complements the actions of the hormone epinephrine, which readies the body to respond to <u>danger</u> or other stressful situations 	<ul style="list-style-type: none"> ▪ overproduction linked to high <u>blood pressure</u>, anxiety, and insomnia ▪ deficiency linked to hunger cravings and <u>exhaustion</u>