

Name _____ Date _____

LSD:

1. What neurotransmitter are involved?
2. Explain how (the steps) they interact with the neurotransmitters of the nervous system.
3. What part of the brain is affected?

Cocaine:

1. What neurotransmitter(s) are involved?
2. Explain how (the steps) they interact with the neurotransmitters of the nervous system.
3. What part of the brain is effected?

Alcohol

1. What neurotransmitter(s) are involved?
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Name _____ Date _____

Methamphetamine

1. What neurotransmitter(s) are involved?
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3. What part of the brain is effected?

Marijuana

1. What neurotransmitter(s) are involved?
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Ecstasy

1. What neurotransmitter(s) are involved?
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Name _____ Date _____

Heroin

1. What neurotransmitter(s) are involved?
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Name _____ Date _____

LSD:

1. What neurotransmitter are involved? *Serotonin*
2. Explain how (the steps) they interact with the neurotransmitters of the nervous system.

Mimics serotonin and binds to serotonin receptors on postsynaptic neuron.

Serotonin Receptor type 1 = excited

Serotonin Receptor type 2 = inhibited

3. What part of the brain is affected?

Excites the locus coeruleus responsible for feelings of wakefulness and evoking a startle response to unexpected stimulus.

Cocaine:

1. What neurotransmitter(s) are involved? *Dopamine*
2. Explain how (the steps) they interact with the neurotransmitters of the nervous system.

Cocaine blocks the presynaptic transporters, preventing the reuptake of dopamine. Dopamine overstimulates the postsynaptic cell.

3. What part of the brain is effected? Controlling voluntary movements.

Alcohol

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2. Explain how (the steps) they interact with the neurotransmitters of the nervous system.

3. What part of the brain is effected? Controlling voluntary movements.

Name _____ Date _____

Methamphetamine

1. What neurotransmitter(s) are involved?
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3. What part of the brain is effected? Controlling voluntary movements.

Marijuana

1. What neurotransmitter(s) are involved?
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Ecstasy

1. What neurotransmitter(s) are involved?
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Heroin

1. What neurotransmitter(s) are involved?
2. Explain how (the steps) they interact with the neurotransmitters of the nervous system.

3. What part of the brain is effected? Controlling voluntary movements.

1. Overview:
 - a. What is a neurotransmitter? A molecule that transfers a chemical message to neurons.
 - b. Explain what the presynaptic transporters are and what is their function? Presynaptic transporters are channels that transverse the presynaptic membrane and uptake neurotransmitters.
 - C. Explain what a post synaptic receptor is and how does it function? Post synaptic receptors are molecules where neurotransmitters dock to elicit a response in the post synaptic membrane.

LSD:

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Cocaine:

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Alcohol

Methamphetamine

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