

PSYCH 260-BBH 203 Quiz 2

October 5, 2015

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| Answer the questions using the Scantron form. |
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Name: _____

1 Main

1. The ventral _____ area contains neurons that release _____.
 - A. striatum; oxytocin
 - B. tegmental; dopamine**
 - C. tectal; glycine
 - D. substantia nigra; serotonin
2. An SSRI has what effect on serotonin?
 - A. Reduces it temporarily.
 - B. Accelerates its reuptake.
 - C. Increases levels at the synapse.**
 - D. Causes it to binds to ionotropic receptors.
3. Hormones are NOT released from which brain structure?
 - A. Thalamus.**
 - B. Hypothalamus.
 - C. Pineal gland.
 - D. Pituitary.
4. _____ is the most commonly released neurotransmitter in the CNS. It typically binds to a/an _____ receptor and has a/an _____ effect.
 - A. GABA; metabotropic; excitatory
 - B. ACh; metabotropic; inhibitory.
 - C. Glutamate; ionotropic; excitatory.**
 - D. Dopamine; metabotropic; modulatory.
5. Which of these hormones is released by the anterior pituitary?
 - A. Oxytocin.
 - B. Cortisol.
 - C. Vasopressin.
 - D. Adrenocorticotrophic hormone (ACTH).**
6. Which of these is the primary output neurotransmitter of the CNS?
 - A. Dopamine.
 - B. Norepinephrine.
 - C. Acetylcholine.**
 - D. Melatonin.
7. _____ receptors contain both chemical (ligand) binding sites and an ion channel.
 - A. Acetylcholine
 - B. Serotonin
 - C. Glutamate
 - D. Ionotropic**

8. The inward flow of _____ across the neural membrane creates an _____.
- A. Cl⁻; IPSP**
 - B. K⁺; IPSP
 - C. Glutamate; EPSP
 - D. GABA; IPSP
9. The histamine neurotransmitter is released from the _____ and is involved in _____.
- A. Pineal Gland; Sleep
 - B. Raphe Nuclei; Mood
 - C. Hypothalamus; Immune Response
 - D. Pons; Arousal
10. Visual information from the lateral geniculate nucleus in the thalamus projects to this part of the brain.
- A. Temporal lobe
 - B. Occipital lobe**
 - C. Raphe nucleus
 - D. Hippocampus

2 Bonus

11. Which neurotransmitter is related to the umami (savory) taste sensation?
- A. Glutamate**
 - B. GABA
 - C. Glycine
 - D. Aspartate
12. You are examining a/an _____ synapse. Based on where it connects on the cell body, you guess that it is _____ and involves the release of _____.
- A. dendrodendritic; modulatory; Ca⁺⁺
 - B. axosomatic; inhibitory; GABA**
 - C. axoaxonic; excitatory; adenosine
 - D. axodendritic; inhibitory; glutamate