

PSYCH 260H Quiz 2

October 3, 2016

Answer the questions using the Scantron form.

Name: _____

1 Main

1. The _____ contains neurons that release _____.
 - A. striatum; oxytocin
 - B. ventral tegmental area; serotonin
 - C. tectal; glycine
 - D. substantia nigra; dopamine**
2. A reuptake inhibitor has what effect on neurotransmitters?
 - A. Reduces extracellular levels.
 - B. Accelerates their reuptake.
 - C. Increases extracellular levels.**
 - D. Causes neurotransmitters to bind to ionotropic receptors.
3. Black widow spider venom causes paralysis by impeding the normal function of which neurotransmitter system?
 - A. Glutamate
 - B. GABA
 - C. Dopamine
 - D. Acetylcholine**
4. _____ is the most commonly released inhibitory neurotransmitter in the CNS. It typically binds to a/an _____ receptor.
 - A. GABA; ionotropic**
 - B. ACh; metabotropic
 - C. Glutamate; ionotropic
 - D. Dopamine; metabotropic
5. Which of these hormones is released by the *posterior* pituitary?
 - A. Oxytocin.**
 - B. Cortisol.
 - C. Melatonin.
 - D. Adrenocorticotrophic hormone (ACTH).
6. Which of these acts as both a neurotransmitter and a hormone?
 - A. Dopamine.
 - B. Glutamate.
 - C. Acetylcholine.
 - D. Melatonin.**

7. _____ receptors contain both chemical (ligand) binding sites and an ion channel.
- A. Metabotropic
 - B. Serotonin
 - C. Glutamate
 - D. Ionotropic**
8. The inward flow of _____ across the neural membrane creates an _____.
- A. Cl^- ; EPSP
 - B. Na^+ ; EPSP**
 - C. Glutamate; IPSP
 - D. GABA; IPSP
9. Auditory information from the *medial* geniculate nucleus in the thalamus projects to this part of the brain.
- A. Temporal lobe**
 - B. Occipital lobe
 - C. Raphe nucleus
 - D. Hippocampus

The original question had an error. We have added an extra point to every student's score to correct the error.

10. When the action potential arrives at the axon terminal, _____ open and the influx of _____ triggers exocytosis.
- A. voltage-gated Na^+ channels; Na^+
 - B. voltage-gated Ca^{++} channels; Ca^{++}**
 - C. metabotropic channels; K^+
 - D. transporters; Ca^{++}

2 Bonus

11. With one exception, the monoamine neurotransmitters bind to _____ receptors.
- A. ionotropic
 - B. voltage-gated
 - C. nicotinic
 - D. metabotropic**
12. You are examining an _____ synapse and based on where it connects guess that it is _____ and involves the release of _____.
- A. axodendritic; excitatory; glutamate**
 - B. axosomatic; modulatory; GABA
 - C. axoaxonic; excitatory; adenosine
 - D. axodendritic; excitatory; glycine