# **Practice Questions**

- 1. OCD is usually treated with SSRI medications, but why didn't this medication work in the case of Sammy who developed OCD as a result of an autoimmune condition?
  - a. Sammy was very intelligent and figured it all out pretty quickly
  - b. SSRIs did not treat the real cause of the condition
  - c. The doctors did not know that SSRIs could cause Tourette's syndrome
  - d. Sammy's mother did not have medical insurance
- 2. A pleasure center is located within the:
  - a. Pituitary gland
  - b. Adrenal gland
  - c. Occipital cortex
  - d. Hypothalamus
  - e. Thalamus
- 3. A lesion is:
  - a. A legion of neurosurgeons
  - b. Brain damage
  - c. Conduction of brain surgery in a leisurely way
  - d. An army of gamma cells mobilized to fight viruses
- 4. What structure is not a part of the limbic system?
  - a. Amygdala
  - b. Hypothalamus
  - c. Thalamus
  - d. Hippocampus
  - e. Cortex

- 5. Brenda Milner demonstrated that there is only one memory system, localized in the hippocampus.
  - a. True
  - b. False
- 6. A cluster of cells in the brain is called:
  - a. Cluster one
  - b. Ganglion
  - c. Nucleus
  - d. Nexus
- 7. The medulla controls aggression in humans.
  - a. True
  - b. False
- 8. What subfield of Biological Psychology utilizes a method of turning off genes?
  - a. Gene psychology
  - b. Neuropsychology
  - c. Comparative Psychology
  - d. Any study that uses orangutans
  - e. Chromosomal Behaviorism
- 9. Which one is not a field of Biopsychology?
  - a. Neuropsychology
  - b. Nuclear Psychology
  - c. Cognitive Neuroscience
  - d. Psychophysiology
  - e. Psychopharmacology
- 10. Where is the PAG located?
  - a. Cortex
  - b. Hypothalamus
  - c. Midbrain
  - d. Medulla
  - e. Thalamus

- 1. The limbic system, pons, medulla and basal nuclei are:
  - a. Cortical structures
  - b. Infracortical structures
  - c. Transcortical structures
  - d. Subcortical structures
- 2. The midbrain contains all of these structures except:
  - a. Reticular formation
  - b. Caudate nucleus
  - c. PAG
  - d. Superior colliculus
- 3. Since cranial nerves originate in the brain, they are categorized as the central nervous system.
  - a. True
  - b. False
- 4. The ventral root specializes in:
  - a. Sensory function
  - b. Motor function
  - c. Dorsolateral function
  - d. Anterior function
  - e. Sagittal function
- 5. What is not a part of a neuron?
  - a. Dendrites
  - b. Axon
  - c. Axion
  - d. Schwann cells
  - e. Cell body

- 6. Widening of the pupils is a function of which system?
  - a. Sympathetic system
  - b. Parasympathetic system
  - c. Endothelial system
  - d. Endometrial system
  - e. Entheric system
- 7. How many sympathetic chains are there?
  - a. 3
  - b. 4
  - c. 5
  - d. 2
  - e. 8
- 8. The parasympathetic system decreases digestion.
  - a. True
  - b. False
- 9. All organs that are supplied by the sympathetic system are also supplied by the parasympathetic system.
  - a. True
  - b. False
- 10. To "innervate" means to
  - a. Obstruct
  - b. Supply
  - c. Inhibit
  - d. Excite
  - e. Come from within

- 1. Membrane channels are made of:
  - a. Cells
  - b. Astrocytes
  - c. Proteins
  - d. Mitochondria
  - e. Microtubules
- 2. The surface of the blood brain barrier is impenetrable due to:
  - a. Tight junctions of endothelial cells
  - b. Loose junctions of effemeral cells
  - c. Ionic bonds of protoismeric cells
  - d. Rule of polar opposites
- 3. Signs are objectively observable behaviors in a patient and symptoms are a patient's subjective experience.
  - a. True
  - b. False
- 4. An epidural block is administered in:
  - a. L1-L2 section of the medulla
  - b. L1-L2 section of the spinal cord
  - c. T1-T2 section of the pons
  - d. F1-F2 section of the spinal cord
- 5. How does CSF move through ventricles?
  - a. Via the movement of cilia
  - b. Via Magnesium-Sodium pump
  - c. Via Sodium-Glutamate pump
  - d. Via Rosenzweig's pump

- 6. What is accomplished with lumbar puncture?
  - a. An epidural block
  - b. Collection of CSF for an analysis of its content
  - c. Hydrocephalus
  - d. Stroke
- 7. Most cases of encephalitis are caused by:
  - a. Parasites
  - b. Fungi
  - c. Bacteria
  - d. Viruses
- 8. A shunt is the most common treatment for:
  - a. Hydrocephalus
  - b. Epidural block
  - c. CSF
  - d. Encephalitis
- 9. Symptoms of \_\_\_\_\_ consist of trouble seeing in one or both eyes, headache, speaking deficits, difficulty understanding and numbness or paralysis of the face, arm or leg.
  - a. Parkinson's Disease
  - b. Alzheimer's Disease
  - c. Stroke
  - d. CSF poisoning
- 10. Protective meninges covering the spinal cord are scrura, sanapia, arachnoid and sdura.
  - a. True
  - b. False

- 1. The soma is a neuron's
  - a. Cell body
  - b. Dendrite
  - c. Axon
  - d. Axon terminal
  - e. Axon hillock
- 2. In the axon terminal, mitochondria provide energy for
  - a. Neurotransmitter release
  - b. Neurotransmitter tunneling
  - c. Enzyme's event horizon
  - d. White parallax effect
- 3. Smooth endoplasmic reticulum:
  - a. Produces fat and carbohydrates
  - b. Moves neurotransmitters to Golgi Apparatus
  - c. Creates vesicles
  - d. All of the above
  - e. Some of the above
- 4. With their enzymes, peroxisomes
  - a. Destroy free radicals
  - b. Create free radicals
  - c. Double the impact of free radicals
  - d. Destroy Golgi Apparatus
  - e. Destroy Endoplasmic Reticulum
- 5. What stimuli can open the gated channels?
  - a. Chemicals
  - b. Electrical changes
  - c. Deformations of the channel
  - d. All of the above
  - e. Some of the above

- 6. Deactivation of a cell cannot activate the synapsing cell.
  - a. True
  - b. False
- 7. Ions entering the cell perform
  - a. A retrograde transport
  - b. An anterograde transport
  - c. A lateral inhibition
  - d. An Influx
  - e. An Efflux
- 8. How many chromosomes does a sperm cell contain?
  - a. 23 pairs (46)
  - b. 46 pairs
  - c. 46
  - d. 32
  - e. 23
- 9. When we say that astrocytes modulate the synaptic activity, we mean that astrocytes
  - \_\_\_\_\_ it. a. Circumvent
  - a. Circumven
  - b. Decrease
  - c. Increase
  - d. B and C
  - e. None of the above
- 10. Levels of extracellular oxygen, carbon dioxide and neurotransmitters are regulated by
  - a. Neurons
  - b. Gliomas
  - c. Satellite cells
  - d. Radial glia

- 1. What type of a bond is formed between atoms sharing their electrons?
  - a. Transmigrating
  - b. Ionic
  - c. Dualistic
  - d. Covalent
- 2. The neuronal membrane's passive channels are always
  - a. Non-functional
  - b. Open
  - c. Stimulated
  - d. Impossible to use
  - e. Lateral
- 3. What factor does not influence the membrane's voltage?
  - a. Sodium-potassium pump
  - b. Electrostatic gradient
  - c. Concentration gradient
  - d. Membrane's permeability
  - e. Magnesium-Calcium pump
- 4. A local signal is composed of
  - a. Neurotransmitters
  - b. Ions
  - c. Enzymes
  - d. Phospholipids in the membrane
  - e. Genetic triplets
- 5. An electrotonic signal is composed of
  - a. Neurotransmitters
  - b. Ions
  - c. Enzymes
  - d. Phospholipids in the membrane
  - e. Genetic triplets

- 6. Excitatory post-synaptic potential is composed of
  - a. Neurotransmitters
  - b. Ions
  - c. Enzymes
  - d. Phospholipids in the membrane
  - e. Genetic triplets
- 7. Inhibitory post-synaptic potential is composed of
  - a. Neurotransmitters
  - b. Ions
  - c. Enzymes
  - d. Phospholipids in the membrane
  - e. Genetic triplets
- 8. Hyperpolarization happens during the
  - a. Relative refractory period
  - b. Constant period
  - c. Period of small N values
  - d. Absolute zero period
- 9. The size of a chemical synapse is like a \_\_\_\_\_\_ in comparison to the size of an electrical synapse.
  - a. Ocean
  - b. Pond
  - c. Lake
  - d. Bath tub
  - e. Kitchen sink
- 10. The reuptake process is completed by the protein transporters located
  - a. On the membrane of the post-synaptic terminal
  - b. On the membrane of the pre-synaptic terminal
  - c. On the axon hillock
  - d. On the soma

- 1. Suppression of appetite is influenced by a release of
  - a. Idolatrine
  - b. Serotonin
  - c. Hypocretin
  - d. Orexin
  - e. Gaba
- 2. \_\_\_\_\_ is released from the somatic system's axons that establish neuro-muscular junctions.
  - a. Histamine
  - b. Orexin
  - c. Hypocretin
  - d. Acetylcholine
- 3. What stimulus completely opens a chemically-sensitive channel that is associated with the NMDA receptor?
  - a. glutamate
  - b. Sodium ions creating a sufficient depolarization
  - c. Magnesium pump
  - d. AMPA fogging effect
- 4. Why does picrotoxin lead to convulsions?
  - a. It blocks the GABAa receptor, preventing an influx of chloride ions
  - b. It blocks the AMPA receptor, preventing the influx of sodium ions
  - c. It stimulates the GABAa receptor, facilitating the influx of sodium ions
  - d. It blocks the action of antipsychotic medications
- 5. Endorphins block pain by inhibiting

- a. Enkephalins
- b. Endogenous opiates
- c. Opioids
- d. Substance P
- e. Dynorphins
- 6. When THC binds to the CB1 receptor, the effects are all of the following except:
  - a. Euphoria
  - b. Sedation
  - c. Suppression of appetite
  - d. Distortion of time perception
- 7. \_\_\_\_\_ is present in all cells.
  - a. Dopamine
  - b. Serotonin
  - c. Histamine
  - d. Acetylcholine
  - e. Adenosine
- 8. In the meso-cortical pathway, \_\_\_\_\_\_\_very significantly influences our ability to pay attention, plan and solve problems.
  - a. Dopamine
  - b. Indolatrine
  - c. Hypocretin
  - d. Dynorphins
  - e. Substance F
- 9. The sensation of "goose bumps" is influenced by a stimulation of a receptor for
  - a. Dopamine
  - b. Serotonin
  - c. Norepinephrine
  - d. Histamine
  - e. Acetylcholine

- 1. In the ventral tegmental area, a reduction in the activity of GABA
  - a. Inhibits dopamine producing cells, so less dopamine is produced
  - b. Inhibits glutamate producing cells, so less glutamate is produced
  - c. Activates dopamine producing cells, so more dopamine is produced
  - d. Activates endorphin producing cells, so less dopamine is produced
- 2. When a chemical attaches to a neurotransmitter's receptor, mimicking that transmitter's activity, that chemical is
  - a. A protagonist
  - b. A third messenger
  - c. An agonist
  - d. An antagonist
- 3. What prevents acetylcholine from binding to its receptor?
  - a. Curare
  - b. LSD
  - c. Amphetamine
  - d. Ondolamine
- 4. LSD is structurally very similar to
  - a. Dopamine
  - b. Endorphins
  - c. Enkephalins
  - d. Serotonin

- 5. Atropine was used by the ancient Greeks because it can
  - a. Enlarge breast size
  - b. Dilate vaginal lips
  - c. Enlarge pupils
  - d. Increase the duration of an orgasm
- 6. To reduce delusions and hallucinations, antipsychotics
  - a. Prevent dopamine from binding to its receptor
  - b. Stimulate serotonin to bind to its receptor
  - c. Stimulate orexin to bind to hypothalamic receptors
  - d. Prevent norepinephrine from being released from adrenal glands
- 7. Hormone receptors are always located on the surface of cellular membranes.
  - a. True
  - b. False
- 8. Hypothalamic releasing and inhibiting hormones act on the anterior pituitary gland.
  - a. True
  - b. False
- 9. Muscle strength and endurance is influenced by dopamine and epinephrine breaking down glycogen.
  - a. True
  - b. False
- 10. In the testes, testosterone is converted to estradiol.
  - a. True
  - b. False

- 1. A taste bud is a \_\_\_\_\_ of cells
  - a. Bridge
  - b. Cluster
  - c. Star-shaped area
  - d. Rod-shaped collection
- 2. Gustatory cells are \_\_\_\_\_ every days.
  - a. Replaced, seven
  - b. Redirected, 365 days
  - c. Turned to neural dust, 57 days
  - d. Phantomized, seven days
- 3. In the olfactory system, receptors are located on the receptor cell's axons.
  - a. True
  - b. False
- 4. In the olfactory system, the \_\_\_\_\_\_\_ gives us a more precise and fuller experience of a particular smell.
  - a. Piriform cortex
  - b. Thalamus
  - c. Orbitofrontal cortex
  - d. Cochlea
- 5. The malleus, incus and stapes
  - a. Are mythical entities with a large auditory cortex, so they can hear everything
  - b. Are divine-like creatures that can amplify infinitesimal sounds
  - c. Are bones in the middle ear that amplify vibrations
  - d. Are sponge-like soft tissues that attenuate (reduce) vibrations

- 6. The cochlear nucleus is located in the
  - a. Pons
  - b. Medulla
  - c. Spinal cord
  - d. Auditory cortex
- 7. When the auditory nerve is cut, tinnitus
  - a. Decreases
  - b. Amplifies
  - c. Continues
  - d. Disappears
- 8. What stimulates the receptor cells of the semicircular canals to perform transduction?
  - a. Bending of cilia
  - b. Heating of cilia
  - c. Cooling of cilia
  - d. Gently touching cilia
  - e. Shining light on them
- 9. What is the cortical product of the vestibular sacs' transduction?
  - a. Sight
  - b. Hearing
  - c. Taste
  - d. Conscious experience of balance
  - e. Smell
- 10. Transduction in all sensory systems occurs at the level of the
  - a. Cortex
  - b. Pons
  - c. Medulla
  - d. Spinal cord
  - e. Receptor cells

- 1. Receptor cells for the sense of touch are located in
  - a. Soles of feet
  - b. Hairless skin
  - c. Hairy skin
  - d. Eyelids
  - e. All of the above
- 2. A homunculus is a subcortical region that contains the map of the body's surface.
  - a. True
  - b. False
- 3. Pain receptor cells in the face and neck send their axons via sensory spinal nerves.
  - a. True
  - b. False
- Selective attention manifests itself biologically as weakening of the nervous system responses to something in focus, and strengthening of neuronal responses to aspects of reality that are not in focus.
  - a. True
  - b. False
- 5. What is a stimulus that activates the thermoreceptors?
  - a. Menthol
  - b. Odorants
  - c. Changes in temperature
  - d. Bending of cilia
  - e. A and C
- 6. Which one is not a hypothalamic mechanisms to increase body heat?

- a. Vasoconstriction of blood vessels in the skin
- b. Shivering
- c. Increasing metabolic rate
- d. Resetting metabolic rate to zero
- 7. Baroreceptors process information about
- a. Pressure within an organ
- b. Heat on the surface of an organ
- c. Illumination of an organ's apex
- d. Density of neuronal cell bodies
- 8. Chemoreceptors detect the <u>of oxygen</u>, carbon dioxide and concentration of hydrogen ions.
- a. Blood levels
- b. Cytoplasm levels
- c. Endoplasm levels
- d. CSR levels
- e. Golgi matrix levels
- 9. What stimulus activates a muscle spindle to perform transduction?
- a. Damage of a muscle
- b. Contraction of a muscle
- c. Stretch of a muscle
- d. Spinning of a muscle
- 10. An explanation of a blindsight is
- a. Cones specialize in color vision
- b. Light hyperpolarizes photoreceptors
- c. V5 area is overstimulated
- d. A person's primary visual cortex still has some functioning tissue

- 1. High frequency electrical pattern of stage 5 sleep signifies
  - a. Cellular decomposition
  - b. Cellular desynchronization
  - c. Apoptosis (cell death)
  - d. Cellular synchronization
- 2. When the pontomesencephalon is
  - damaged, \_\_\_\_\_ is likely to occur.
  - a. death
  - b. seizure
  - c. wakefulness
  - d. sleep
- 3. REM-on neurons are located in the
  - a. medulla
  - b. habenula
  - c. pons
  - d. PAG
  - e. CSF
- 4. After learning some new information, sleep spindles
  - a. decrease
  - b. become flatter
  - c. increase
  - d. overstimulate the thalamus
- 5. \_\_\_\_\_ interrupts REM sleep.
  - a. Ondolamine
  - b. Dopamine
  - c. Adenosine
  - d. Serotonin
  - e. A and C

- 6. The experience of pleasure associated with receiving a reward is likely located in the
  - a. Cerebellar cortex
  - b. Pons
  - c. Caudate nucleus
  - d. Nucleus accumbens
- 7. When glutamate binds to the NMDA receptor, what blocks glutamate's activity?
  - a. Sodium ion
  - b. Magnesium ion
  - c. Potassium ion
  - d. Electromagnetism
- 8. Which of the following is a biological change that facilitates LTP.
  - a. AMPA receptors become more receptive to glutamate
  - b. Dendrites generate more branches and spines
  - c. Dendrites retract AMPA receptors
  - d. A and B
- 9. Our comprehension of words is primarily processed by
- a. Fusiform gyrus
- b. Dirac's area
- c. Wernicke's area
- d. Broca's area
- 10. \_\_\_\_\_ allows a tone to trigger blinking.
  - a. A nucleus in the cerebellum
  - b. A nucleus in the amygdala
  - c. A nucleus of the hypothalamus
  - d. A nucleus of the PAG

- 1. The hippocampus, amygdala and the adjacent cortex are collectively called
  - a. Crux Cerebri
  - b. Pontificus Magnum
  - c. Medial temporal lobe
  - d. Center of temporal gravity
- 2. Strengthening of emotional memories is done by the
  - a. habenula
  - b. amygdala
  - c. homunculus
  - d. geniculate nucleus
- 3. Short-term memory is primarily processed by the
  - a. Prefrontal cortex
  - b. inferior temporal cortex
  - c. superior temporal cortex
  - d. B and C
- 4. Confabulation is associated with a deficiency in
  - a. Magnesium ions
  - b. Vitamin B1
  - c. Anorexin
  - d. Indolamin
- 5. The hippocampus becomes more prone to damage by overstimulation and toxins due to.
  - a. Cortisol
  - b. Dopamine
  - c. Adenosine
  - d. Brief stress
  - e. A and D
- 6. Brain-derived neurotrophin factor, when present in normal amounts, influences

- a. Poorer synapsing among neurons
- b. Shorter survival of neurons
- c. Demise of the hippocampal neurons
- d. All of the above
- e. None of the above
- 7. Lithium
  - a. Decreases the amount of proteins that protect the brain from cell death
  - b. Decreases the amount of cerebral gray matter
  - c. Stimulates the mania-inducing effects
  - d. All of the above
  - e. None of the above
- 8. Male gender identity is observed in.
  - a. Turner's syndrome
  - b. M2F
  - c. F2M
  - d. Androgen insensitivity syndrome
  - e. None of the above
- 9. Nuclei that possibly influence gender identity are the
- a. Globus palladius and caudate
- b. Putamen medial and putamen lateral
- c. Locus coreuleus and accumbens
- d. BNST and uncinate
- 10. Panic is stimulated by decreased levels of \_\_\_\_\_ and increased levels of
  - a. Indolamine, serotonin
  - b. Gaba, orexin
  - c. Norepinephrine, epinephrine
  - d. Glutamate, NMDA

- 1. CT is based on
  - a. MDMA ray technology
  - b. Positron field conduct
  - c. Multiverse theory
  - d. X-ray technology
- 2. MRI is based on the observation that
  - a. Opponent processing is an imperfect system
  - b. Time dilation is due to relativity
  - c. Time contraction is due to relativity
  - d. Different parts of the brain contain different amounts of hydrogen atoms
- 3. A method that applies a magnetic field to the brain areas turning them on and off is
  - a. PET
  - b. CT
  - c. TMS
  - d. fMRI
- 4. Reversible lesions can be accomplished with
  - a. Cryogenic blockades
  - b. Anesthetic drugs
  - c. Endodural blocks
  - d. Aspiration lesions
  - e. A and B
- 5. Cerebral dialysis
  - a. Is used after the animal is sacrificed
  - b. Is a slicing method
  - c. Measures chemicals in the extracellular space
  - d. is a brainbow method
- 6. Immunocytochemistry relies on
  - a. Antibodies
  - b. Tripartite synapses
  - f. Astroposis
  - g. Endocytosis
  - h. Prosis

- 7. The optogenetic method relies on an observation that
  - a. Light-stimulation of certain proteins influences the opening of sodium channels
  - b. Deforming certain proteins influences eight different neuronal scenarios
  - c. Adoption studies are a category of genetic methods
  - d. Twin studies are used to assess the role of heredity
- 8. Ancient Egyptians attributed a major significance to the brain.
  - a. True
  - b. False
- 9. Dualism is a position that the mind is an aspect of matter.
  - a. True
  - b. False
- 10. Trephination
  - a. Dates back to around 10,000 B.C.E.
  - b. Is the oldest type of surgery
  - c. Drills holes in the skull
  - d. All of the above
  - e. None of the above

ANSWERS: CHAPTER 1				
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ANSWERS: CHAPTER 5				
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5. C	9. B	
6. A	10. D	
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