Fundamental Neuroscience 3rd Edition Squire Test Bank

Full Download: https://alibabadownload.com/product/fundamental-neuroscience-3rd-edition-squire-test-bank/

Chapte	er 1 – Fundamentals
1.	Vertebrate nervous system components are named for both theirand
	a. size; location
	b. appearance; location
	c. appearance; size
	d. none of these
2.	Which of these best describes the interconnected, differentiated, and
	bioelectrically driven units of the nervous system?
	a. neurons
	b. lobes
	c. networks
	d. axons
3.	Neurons are classified according to which of the following?
	a. function
	b. shape
	c. type of transmitter released
	d. all of these
4.	Neurons generally have axon (s) and many that extend
	from the nerve cell body.
	a. one; dendrites
	b. many; dendrites
	c. one; synapses
	d. many; synapses
5.	Which cellular component is responsible for structural support for long neuronal
	processes as well as transport along those processes?
	a. dendrites
	b. spines
	c. microtubules
	d. endoplasmic reticulum
6.	Neurons communicate with each other via
	a. astrocytes
	b. mechanical junctions
	c. synapses
	d. microglia
7.	Neurotransmitter release occurs in the neuron through binding of
	the to the membrane.
	a. postsynaptic; protein
	b. postsynaptic; vesicle

	c. presynaptic; protein d. presynaptic; vesicle
8.	When the axon of one neuron synapses on the cell body of another neuron, this is termed a. axosomatic b. axodendritic c. somasomatic d. dendrodendritic
9.	Synapses are categorized by their and a. structure; location b. structure; function c. size; location d. size; function
10.	Excitatory and inhibitory produce short-term changes in membrane permeability, while produce a much more lasting change in postsynaptic membrane properties. a. enzymes; proteins b. proteins; enzymes c. amino acids; monoamines d. monoamines; amino acids
11.	At the molecular level, neuron function is modified by alterations in which these? a. regulation of ion channels and binding of synaptic vesicles b. regulation of ion channels and alterations in gene expression c. binding of synaptic vesicles and growth of microtubules d. growth of microtubules and alterations in gene expression
12.	What is the hierarchical order of the study of the nervous system (from smallest to largest)? a. cellular, molecular, systems, behavioral b. cellular, molecular, behavioral, systems c. molecular, cellular, systems, behavioral d. molecular, cellular, behavioral, systems
13.	The brain is broadly subdivided into which regions based on gross anatomy and epidemiology? a. forebrain, midbrain, and hindbrain b. spinal cord and brain c. cephalic, thoracic, and abdominal d. rostral, caudal, dorsal, and ventral
14.	Clusters of neurons in the central nervous system are known as, while they are called in the peripheral nervous system.

- a. ganglia; nuclei
- b. nuclei; ganglia
- c. lobes; sulci
- d. sulci; lobes
- 15. The type of neuronal connections most common to primary sensory and motor cortices in which information flow is sequential by necessity are
 - a. long hierarchical neuronal connections
 - b. single circuit divergent circuitry
 - c. local circuits
 - d. none of these
- 16. Which type of neuronal circuit is classified by small spatial domains and relatively few processes?
 - a. long hierarchical neuronal connections
 - b. single circuit divergent circuitry
 - c. local circuits
 - d. none of these
- 17. Which type of neuronal circuit contains interregional neurons that typically originate from the hypothalamus, pons, and medulla?
 - a. long hierarchical neuronal connections
 - b. single circuit divergent circuitry
 - c. local circuits
 - d. none of these
- 18. Astrocytes and oligodendroglia are examples of what type of non-neuronal cell in the nervous system?
 - a. choroid plexus
 - b. meninges
 - c. macroglia
 - d. microglia
- 19. The cells of the choroids plexus secrete
 - a. cerebrospinal fluid.
 - b. neurotransmitters.
 - c. meninges.
 - d. neuron support proteins.
- 20. Which of these acts as a filter to isolate the central nervous system from other parts of the body?
 - a. meninges
 - b. cerebrospinal fluid
 - c. spinal cord
 - d. blood-brain barrier

- 21. Neuronal plasticity is considered to be
 - a. activity-dependent and reversible
 - b. limited to childhood
 - c. always a product of stem cell generation
 - d. limited to the sensory systems
- 22. Elucidating details about activity-dependent gene expression within neurons is the key way the future research will link
 - a. neural networks and neurotransmitters.
 - b. the activity of neurons with neuron cell growth.
 - c. molecular and behavioral events.
 - d. none of these
- 23. As in all scientific research, neuroscience research ranges from descriptive to ______ in nature and can result in support for, but not ______, that a hypothesis is correct.
 - a. prophetic; evidence against
 - b. deductive; proof
 - c. deductive; evidence against
 - d. prophetic; proof
- 24. Which of these ethical violations is a product of altering existing data in order to skew results?
 - a. fabrication
 - b. falsification
 - c. plagiarism
 - d. none of these

Answer Key

- 1. b. appearance; location
- 2. a. neurons
- 3. d. all of these
- 4. a. one; dendrites
- 5. c. microtubules
- 6. c. synapses
- 7. d. presynaptic; vesicle
- 8. a. axosomatic
- 9. b. structure; function
- 10. c. amino acids; monoamines
- 11. b. regulation of ion channels and alterations in gene expression
- 12. c. molecular, cellular, systems, behavioral
- 13. a. forebrain, midbrain, and hindbrain
- 14. b. nuclei; ganglia
- 15. a. long hierarchical neuronal connections
- 16. c. local circuits

Fundamental Neuroscience 3rd Edition Squire Test Bank

Full Download: https://alibabadownload.com/product/fundamental-neuroscience-3rd-edition-squire-test-bank/

- 17. b. single circuit divergent circuitry
- 18. c. macroglia
- 19. a. cerebrospinal fluid.
- 20. d. **blood-brain barrier**
- 21. a. activity-dependent and reversible
- 22. c. molecular and behavioral events.
- 23. b. deductive; proof
- 24. b. falsification