Test Bank for Memory Foundations and Applications 3rd Edition by Schwartz IBSN 9781506326535

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Instructor Resource Schwartz, Memory: Foundations and Applications, 3e SAGE Publishing, 2018

Chapter 2: Memory and the Brain

Test Bank

Multiple Choice

- 1. The Olfactory Bulb is the primary organ for processing odors. Information from the olfactory nerves is carried directly to the:
- a. cortex.
- b. nose.
- c. left brain.
- d. right brain.

Ans: a

Cognitive Domain: Knowledge

Answer Location: Olfaction, Memory, and the Brain

Difficulty Level: Easy

- 2. Musical perception is processed primarily in which hemisphere of the brain?
- a. left
- b. right
- c. center
- d. hind

Ans: b

Cognitive Domain: Knowledge

Answer Location: Memory, Music and the Brain

Difficulty Level: Easy

- 3. Which of the following drugs is prescribed to treat Alzheimer's disease?
- a. benzodiazepines
- b. asprin
- c. carbamazepines
- d. cholinergics

Ans: d

Cognitive Domain: Knowledge

Answer Location: Chemical Enhancement of Memory

Difficulty Level: Easy

- 4. An inability to retrieve memories of events prior to brain damage is called:
- a. amnesia.
- b. retrograde amnesia.
- c. structural amnesia.
- d. function three amnesia.

Ans: b

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Cognitive Domain: Knowledge

Answer Location: Neuropsychology: Memory Deficits and Amnesia

Difficulty Level: Easy

- 5. An inability to form new memories follow brain damage is called:
- a. anterograde amnesia.
- b. retrograde amnesia.
- c. function three amnesia.
- d. sensorial amnesia.

Ans: a

Cognitive Domain: Knowledge

Answer Location: Neuropsychology: Memory Deficits and Amnesia

Difficulty Level: Easy

- 6. The frontal lobe is in this part of the brain.
- a. shocking
- b. stimulating
- c. most anterior
- d. biticular section

Ans: c

Cognitive Domain: Knowledge Answer Location: Frontal Lobe

Difficulty Level: Easy

- 7. With what is the prefrontal cortex most associated?
- a. learning
- b. higher emotions
- c. flight or fight decisions
- d. fixations

Ans: b

Cognitive Domain: Knowledge Answer Location: Frontal Lobe

Difficulty Level: Easy

- 8. The prefrontal cortex is part of which lobe?
- a. frontal
- b. left
- c. right
- d. center

Ans: a

Cognitive Domain: Knowledge Answer Location: Frontal Lobe

- 9. With what is the prefrontal lobe most associated?
- a. hearing
- b. hopes
- c. sight
- d. higher emotion

Ans: d

Cognitive Domain: Knowledge Answer Location: Frontal Lobe

Difficulty Level: Easy

- 10. Somatosensory perception is a function of this lobe.
- a. sense lobe
- b. frontal
- c. center
- d. parietal

Ans: d

Cognitive Domain: Comprehension Answer Location: Parietal Lobe

Difficulty Level: Medium

- 11. Attention is most associated with this lobe.
- a. frontal
- b center
- c. left
- d. parietal

Ans: d

Cognitive Domain: Comprehension

Answer Location: Parietal Difficulty Level: Medium

- 12. Visual processing takes place in which lobe?
- a. imaging lobe
- b. parietal
- c. left
- d. occipital

Ans: d

Cognitive Domain: Comprehension

Answer Location: Occipital Difficulty Level: Medium

- 13. Basic visual memory takes place in this lobe.
- a. occipital

b. right

c. left

d. parietal

Ans: a

Cognitive Domain: Knowledge Answer Location: Occipital Lobe

Difficulty Level: Easy

- 14. The temporal lobe is associated with:
- a. language, audition, and memory.
- b. development, vision, and attention.
- c. emotion, metacognition, and memory.
- d. vision, language, and somatosensory attention.

Ans: a

Cognitive Domain: Knowledge Answer Location: Temporal Lobe

Difficulty Level: Medium

- 15. The frontal lobe is associated with:
- a. vision, smell, and taste.
- b. higher emotion, decision-making, metacognition, and memory.
- c. audition, language, and memory.
- d. somatosensory and attention.

Ans: b

Cognitive Domain: Comprehension

Answer Location: Cortical Areas of the Brain Associated with Memory

Difficulty Level: Medium

- 16. Which area of the brain serves as a routing center?
- a. amygdala
- b. thalamus
- c. hypothalamus
- d. diencephalon

Ans: b

Cognitive Domain: Comprehension Answer Location: Diencephalon

- 17. Which area of the brain is associated with emotions?
- a. amygdala
- b. hypothalamus
- c. thalamus
- d. diencephalon

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Ans: b

Cognitive Domain: Comprehension

Answer Location: Amgdala Difficulty Level: Medium

- 18. Which part of the brain is critical in emotional learning, fear, and memory?
- a. thalamus
- b. hypothalamus
- c. frontal lobe
- d. amygdala

Ans: d

Cognitive Domain: Comprehension

Answer Location: Amygdala Difficulty Level: Medium

- 19. The diencephalon part of the brain is includes the:
- a. amygdala and thalamus.
- b. thalamus and hypothalamus.
- c. amygdala and hypothalamus.
- d. thalamus and amygdala.

Ans: b

Cognitive Domain: Comprehension Answer Location: Diencephalon

Difficulty Level: Medium

- 20. This area of the brain is associated with memory.
- a. hind brain
- b. left brain
- c. right brain
- d. cortical areas

Ans: d

Cognitive Domain: Knowledge

Answer Location: Cortical Areas of the Brain Associated with Memory

Difficulty Level: Easy

- 21. The Cerebral is also known as:
- a. neocortex.
- b. left lobe.
- c. right lobe.
- d. fixed cortex.

Ans: a

Cognitive Domain: Knowledge

Answer Location: Cortical Areas of the Brain Associated with Memory

Difficulty Level: Easy

- 22. The frontal lobe, temporal lobe, parietal lobe, and the occipital lobe make up:
- a. cerebral cortex.
- b. diencephalon.
- c. parietal.
- d. prefrontal.

Ans: a

Cognitive Domain: Comprehension

Answer Location: Cortical Areas of the Brain Associated with Memory

Difficulty Level: Medium

- 23. These are a set of brain structures located just beneath the crebral cortex. They are important to memory and emotion.
- a. medial temporal system
- b. limbic system
- c. episodic memory system
- d. associated memory system

Ans: b

Cognitive Domain: Comprehension Answer Location: Subcortical Structures

Difficulty Level: Medium

- 24. Damage to this area can cause anterograde amnesia.
- a. campus
- b. hippocampus
- c. anterior campus
- d. cerebral cortex

Ans: b

Cognitive Domain: Comprehension Answer Location: Subcortial Structures

Difficulty Level: Medium

- 25. This part of the brain produces dopamine. With Parkinson's disease, this area does not produce enough.
- a. Substantia nigra
- b. hippocampus
- c. free recall
- d. Axon terminal

Ans: a

Cognitive Domain: Comprehension Answer Location: Neurotransmitters

26. Terminal Buttons at the end of an axon hold:

a. dendrites.

b. neurotransmitter.

c. synapses.

d. perceptors.

Ans: b

Cognitive Domain: Comprehension

Answer Location: Neurons Difficulty Level: Medium

27. This is the gap between one neuron and the dendrite of the next.

a. cortex receptors

b. synapses

c. axon

d. engram receptor

Ans: b

Cognitive Domain: Comprehension

Answer Location: Neuron Difficulty Level: Medium

28. This is the part of the neuron that sends information to other neurons.

a. synapse

b. terminal Button

c. dendrite

d. axon

Ans: d

Cognitive Domain: Comprehension

Answer Location: Neurons Difficulty Level: Medium

29. The practice of helping brain-damaged patients recover and cope with injuries is called:

a. clinical neuropsychology.

b. psychiatry.

c. psychology.

d. injury parapsychology.

Ans: a

Cognitive Domain: Knowledge

Answer Location: Brain and Memory

Difficulty Level: Easy

30. This is the electrochemical process of transmission in an axon.

- a. action potential
- b. neuron transmission
- c. synapse process
- d. cognitive flow

Ans: a

Cognitive Domain: Knowledge Answer Location: Neurons

Difficulty Level: Easy

- 31. What part of the neuron receives information from other neurons or directly from sensory receptors?
- a. dendrites
- b. axon
- c. synapse
- d. nigra

Ans: a

Cognitive Domain: Knowledge Answer Location: Neurons Difficulty Level: Easy

Difficulty Level. Lasy

- 32. Describe the functional significance of the hippocampus.
- a. cognitive and emotional functioning
- b. learning and memory
- c. memory and emotion
- d. fear and learning

Ans: b

Cognitive Domain: Application Answer Location: Amygdala

Difficulty Level: Hard

- 33. When an individual suspects a diagnosis of Alzheimer's, one of many dimentia/type illnesses, what will be the first deficit detected in this disease?
- a. cognition
- b. emotion
- c. memory
- d. behavior

Ans: c

Cognitive Domain: Application

Answer Location: Brain and Memory

Difficulty Level: Hard

34. Which of these limbic system structures is most associated with emotion and emotional learning?

- a. hypothermus
- b. hyperthalamus
- c. thalamus
- d. amygdala

Ans: d

Cognitive Domain: Knowledge Answer Location: Amygdala

Difficulty Level: Easy

- 35. In a serious accident that results in brain damage, memory deficits acquired through brain damage will result in:
- a. Alzheimer's.
- b. amnesia.
- c. concussion.
- d. engram aversion.

Ans: b

Cognitive Domain: Comprehension Answer Location: Subcortical Structures

Difficulty Level: Medium

- 36. This part of the brain is an important relay point in human memory circuits.
- a. diencephalon
- b. amygdala
- c. hippocampus
- d. hypercampus

Ans: a

Cognitive Domain: Comprehension Answer Location: Diencephalon

Difficulty Level: Medium

- 37. An inability to form new memories following brain damage is known as:
- a. anterograde amnesia.
- b. amnesia.
- c. Alzheimer's.
- d. forgetful memory.

Ans: a

Cognitive Domain: Comprehension

Answer Location: Neuropsychology: Memory Deficits and Amnesia

- 38. tdCS directs what type of electricity directly to the scalp in a continuous fashion?
- a. dBs
- b. low current

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c. MRI d. PED Ans: b

Cognitive Domain: Application

Answer Location: Brain Stimulation Techniques

Difficulty Level: Hard

- 39. If a researcher wished to observe the change in cognition relating to brain stimulation, a technique the researcher might use would involve a small magnetic pulse to create a small pulse of electricity. Which stimulation technique would the researcher use?
- a. tdCS
- b. DBS
- c. tDCS
- d. TMs Ans: d

Cognitive Domain: Application

Answer Location: Brain Stimulation Techniques

Difficulty Level: Hard

- 40. To view the Cerebral Cortex, the Corpus Callosum, and a number of subcortical structures, a researcher might us:
- a. MRI.
- b. tdCS.
- c. dBs.
- d. TMs.

Ans: a

Cognitive Domain: Comprehension

Answer Location: Brain Stimulation Techniques

Difficulty Level: Medium

- 41. A device implanted directly into the brain to send electrical impulses to specific regions of the brain is called a:
- a. MRI.
- b. TMs.
- c. dBs.
- d. DTI.

Ans: c

Cognitive Domain: Comprehension

Answer Location: Brain Stimulation Techniques

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42. To compare the pattern of movement of molecules within the tissue in order to derive structural images, a researcher would use a special type of MRI known as:

a. dBs.

b. DTI.

c. tdCS.

d. TMs.

Ans: b

Cognitive Domain: Comprehension

Answer Location: Magnetic Resonance Imaging Technology

Difficulty Level: Medium

43. What instrument would a researcher use to get a detailed image of a living human brain without causing any damage to living tissue?

a. PET

b. tdCS

c. TMs

d. MRI

Ans: a

Cognitive Domain: Comprehension

Answer Location: Positron Emission Tomography

Difficulty Level: Medium

44. What equipment has advanced our understanding of the relation of brain and mind more than any other tool?

a. TMs

b. MRI

c. PET

d. fMRI

Ans: d

Cognitive Domain: Comprehension

Answer Location: Magnetic Resonance Imaging Technology

Difficulty Level: Medium

45. The hypothetical physical unit of storage of a memory is known as:

a. memory.

b. engram.

c. neuron.

d. axon.

Ans: b

Cognitive Domain: knowledge

Answer Location: Old Questions, New Answers

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46. The Parietal Lobe, Occipital Lobe, Temporal Lobe, and Frontal Lobe are all known as what type of lobes?

- a. Frontal Cortex
- b. Prefrontal Cortex
- c. Cortical
- d. Temporal Cortex

Ans: c

Cognitive Domain: Comprehension

Answer Location: Cortical Areas of the Brain Associated with Memory

Difficulty Level: Medium

47. Self-regulation of memory is most associated with which lobe of the Cerebral

Cortex?

- a. occipital
- b. parietal
- c. frontal
- d. temporal

Ans: c

Cognitive Domain: Knowledge Answer Location: Frontal Difficulty Level: Easy

- 48. In order for a neural signal to be sent, neurotransmitters must move from the axon of one neuron to the dendrite of another. This reflects the importance of the:
- a. organelles.
- b. synapse.
- c. terminal buttons.
- d. dendrites.

Ans: b

Cognitive Domain: Knowledge Answer Location: Neurons

Difficulty Level: Easy

- 49. A set of techniques that allow researchers to make detailed maps of the brain and assign functions to particular regions of the brain is known as:
- a. neuroimaging.
- b. intracranial EEG.
- c. electroencephalography.
- d. magnetoencephalography.

Ans: a

Cognitive Domain: Knowledge

Answer Location: Methods in Cognitive Neuroscience

- 50. When looking for a particular class of stimulus in the brain, a researcher would look for averaged patterns across many trials. To do this, what type of test would be needed?
- a. CAT
- b. PET
- c. EEG
- d. MRI

Ans: c

Cognitive Domain: Comprehension

Answer Location: Electroencephalography

Difficulty Level: Medium

- 51. What is the function of the prefrontal lobe as associated with the frontal lobe area?
- a. forgetful mechanism
- b. initiating emotion
- c. initiating flight or flight
- d. initiating memory

Ans: d

Cognitive Domain: Comprehension Answer Location: Frontal Lobe

Difficulty Level: Medium

- 52. Where does initiating memory take place?
- a. prefrontal cortex
- b. temporal lobe
- c. hippocampus
- d. amagdala

Ans: a

Cognitive Domain: Knowledge Answer Location: Frontal Lobe

Difficulty Level: Easy

- 53. Memory loss can occur at tremendous costs in this area due to its widespread consequences.
- a. prefrontal Lobe
- b. diencephalon
- c. amagdala
- d. hippocampus

Ans: b

Cognitive Domain: Knowledge Answer Location: Diencephalon

- 54. This area is concerned with massive connections between the Prefrontal Lobe, the hippocampus, and the medial temporal lobe.
- a. diencephalon
- b. amagdala
- c. corpus collosum
- d. skull cap

Ans: a

Cognitive Domain: Comprehension Answer Location: Diencephalon

Difficulty Level: Medium

- 55. A student has stayed up all night working on a project in hopes of finishing it before class begins. Soon the student begins experiencing headaches and is unable to concentrate due to the lack of sleep. What part of the brain is being most affected due to over exposure to the task?
- a. amygdala
- b. hippocampus
- c. Broca's area
- d. lateral fissure

Ans: a

Cognitive Domain: Analysis Answer Location: Amygdala

Difficulty Level: Hard

- 56. The area of the brain that is located just below the prefrontal cortex, above the lateral fissure, and beside the precentral gyrus is known as the:
- a. Broca's area.
- b. hippocampus area.
- c. occipital Lobe area.
- d. visual cortex.

Ans: a

Cognitive Domain: Analysis

Answer Location: Figure 2.6. The Cortical Lobes

Difficulty Level: Hard

- 57. The area located between the precentral gyrus and the postcentral gyrus is called the:
- a. central sulcus.
- b. Broca's area.
- c. auditory cortex.
- d. prefrontal cortex.

Ans: a

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Cognitive Domain: Analysis

Answer Location: Figure 2.6. The Cortical Lobes

Difficulty Level: Hard

- 58. The most anterior part of the cerebral cortex is called:
- a. prefrontal cortex.
- b. frontal lobe.
- c. auditory cortex.
- d. Wernicke area.

Ans: b

Cognitive Domain: Knowledge Answer Location: Frontal Lobe

Difficulty Level: Easy

- 59. Amygalda means:
- a. almond.
- b. memory.
- c. emotion.
- d. to forget.

Ans: a

Cognitive Domain: Knowledge Answer Location: Amygalda

Difficulty Level: Easy

- 60. The hippocampus is part of what network of the brain?
- a. bilateral
- b. cortical
- c. limbic
- d. knowledge

Ans: c

Cognitive Domain: Knowledge Answer Location: Hippocampus

Difficulty Level: Easy

- 61. In Greek, what does hippocampus mean?
- a. hippo
- b. memory
- c. fat cell
- d. seahorse

Ans: d

Cognitive Domain: Knowledge Answer Location: Hippocampus

- 62. An elderly person has fallen. As a result, the individual has broken bones and a severe bump on the head. When examined, this individual seems to have anterograde amnesia (the ability to form new memories after a brain injury). What part of the brain has likely been damaged?
- a. hippocampus
- b. thalamus
- c. frontal lobe
- d. prefrontal lobe

Ans: a

Cognitive Domain: Analysis Answer Location: Hippocampus

Difficulty Level: Hard

- 63. In regards to question 62, what additional part of the brain might be damaged as well?
- a. medial temporal lobe
- b. prefrontal cortex
- c. frontal cortex
- d. postcentral gyrus

Ans: a

Cognitive Domain: Analysis
Answer Location: Temporal Lobe

Difficulty Level: Hard

- 64. In which lobe is memory and imagery processed?
- a. visual processing
- b. free recognition processing
- c. forced recognition processing
- d. cortex recognition processing

Ans: a

Cognitive Domain: Knowledge Answer Location: Occipital Lobe

Difficulty Level: Easy

- 65. When identification is required of a recognized memory target from a set of presented items, which part of the brain is being used?
- a. frontal lobe
- b. parietal lobe
- c. amygdala
- d. occipital lobe

Ans: d

Cognitive Domain: Comprehension

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Answer Location: Occipital Lobe

Difficulty Level: Medium

66. A hypothetical, yet physical unit of a stored memory is known as:

- a. engram.
- b. parietal unit.
- c. unit of memory.
- d. knowledge shed.

Ans: a

Cognitive Domain: Knowledge

Answer Location: Old Questions, New Answers

Difficulty Level: Easy

67. By what mechanism do drugs, such as caffeine, affect brain functions?

- a. neurons
- b. dendrites
- c. axon
- d. synapse

Ans: a

Cognitive Domain: Comprehension

Answer Location: Neurons Difficulty Level: Medium

68. Information from neurons to neurons is accomplished by:

- a. axons.
- b. synapses.
- c. neurotransmitters.
- d. dendrites.

Ans: c

Cognitive Domain: Comprehension Answer Location: Neurotransmitters

Difficulty Level: Medium

- 69. In a possible severe drug overdose, considering the synapse, damage to dendrites and terminal buttons of a neuron would cause severe problems. What would this damage affect the transmission of ?
- a. neurotransmitters
- b. synapse transmitters
- c. electrical centers
- d. metacognition vibrations

Ans: a

Cognitive Domain: Analysis Answer Location: Neurons

Difficulty Level: Hard

- 70. Which of the following carry electrical impulses from one neuron to another?
- a. neurotransmitters
- b. axons
- c. synapses
- d. dendrites

Ans: a

Cognitive Domain: Knowledge Answer Location: Neurons

Difficulty Level: Easy

- 71. An individual has been diagnosed with Alzheimer's disease. Which type of drug can be used in an attempt to alleviate memory loss in early stages of this disease?
- a. cholinergics
- b. benzodiazepines
- c. low dose asperine
- d. triliptal

Ans: a

Cognitive Domain: Comprehension

Answer Location: Chemical Enhancement of Memory

Difficulty Level: Medium

- 72. Which of the following can be used to induce amnesia in episodic memory?
- a. benzodiazepines
- b. cholinergics
- c. slight taps
- d. knowledge inducement

Ans: a

Cognitive Domain: Knowledge

Answer Location: Chemical Enhancement of Memory

Difficulty Level: Easy

- 73. In 1953, a man known only a HM underwent risky experimental surgery to alleviate symptoms of epilepsy. During surgery, parts of what were removed?
- a. eyes
- b. temporal lobes
- c. hippocampus
- d. hypothalmus

Ans: b

Cognitive Domain: Comprehension

Answer Location: Neuropsychology: Memory Deficits and Amnesia

- 74. In anterograde amnesia, an inability to form and retain this occurs.
- a. reaction time
- b. cued recall
- c. new memory
- d. forced choice recognition

Ans: c

Cognitive Domain: Comprehension

Answer Location: Neuropsychology: Memory Deficits and Amnesia

Difficulty Level: Medium

75. Which of the following statements about neuroimaging is false?

- a. Neuroimaging allows correlation of brain activity.
- b. Neuroimaging addresses cognitive issues.
- c. All neuroimaging technologies utilize magnets.
- d. Neuroimaging addresses correlation of brain activity with memory.

Ans: c

Cognitive Domain: Comprehension

Answer Location: Methods in Cognitive Neuroscience

Difficulty Level: Medium

- 76. Which type of neuroimaging equipment can measure when the amygdala is active when evaluating emotional content?
- a. magnetoencephalography
- b. PET scan
- c. EEG
- d. intracranial EEG

Ans: a

Cognitive Domain: Comprehension

Answer Location: Magnetoencephalography

Difficulty Level: Medium

- 77. In the case of Phineas Gage, research has been directed at how brain damage affects cognition and behavior. His accident set the stage for:
- a. cognitive and behavioral research.
- b. brain imagery scanning.
- c. neuropsychiatry.
- d. neuropsychology.

Ans: d

Cognitive Domain: Comprehension

Answer Location: Neuropsychoogy: Memory Deficits and Amnesia

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- 78. The cognitive psychology of memory is increasingly influenced by the neuroscience of memory. Together, these form a hybrid field known as:
- a. Behavioral Neuroscience.
- b. Behavioral Psychology.
- c. Cognitive Neuroscience.
- d. Cognitive Psychology.

Ans: c

Cognitive Domain: Comprehension

Answer Location: Summary Difficulty Level: Medium

- 79. The brain is composed of billions of:
- a. dendrites.
- b. electric paths.
- c. lobes.
- d. neurons.

Ans: d

Cognitive Domain: Knowledge Answer Location: Neurons

Difficulty Level: Easy

- 80. Unlike language, music is processed primarily on which hemisphere of the brain?
- a. left hemisphere
- b. anterior hemisphere
- c. right hemisphere
- d. memory hemisphere

Ans: c

Cognitive Domain: Comprehension

Answer Location: Memory, Music, and the Brain

Difficulty Level: Medium

True/False

1. Deep brain stimulation does not require an implanted device.

Ans: F

Cognitive Domain: Comprehension

Answer Location: Brain Stimulation Techniques

Difficulty Level: Medium

2. It is suggested that music may be good at eliciting a strong connection between it and memory.

Ans: T

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Cognitive Domain: Knowledge

Answer Location: Memory, Music, and the Brain

Difficulty Level: Easy

3. The olfactory bulb is the primary organ in the brain for processing memory.

Ans: F

Cognitive Domain: Knowledge

Answer Location: Olifactory, Memory, and the Brain

Difficulty Level: Easy

4. Benzodiazepines are usually used because of their effects on anxiety, insomnia, and muscle relaxation.

Ans: T

Cognitive Domain: Knowledge

Answer Location: Chemical Enhancement of Memory

Difficulty Level: Easy

5. Retrograde amnesia is the inability to tolerate benzodiazepines during sleepenhanced episodic memory.

Ans: F

Cognitive Domain: Comprehension

Answer Location: Neuropsychology: Memory Deficits and Amnesia

Difficulty Level: Medium

6. Diffusion tensor imaging (DTI) is another MRI technique.

Ans: T

Cognitive Domain: Comprehension

Answer Location: Magnetic Resonance Imaging Technologies

Difficulty Level: Medium

7. Positron Emission Tomography (PET) allows scientists to get a detailed image of a living human brain without damaging living tissue. It does involve injecting a small amount of radioactive substance into a person's blood, which does have potentially negative effects.

Ans: T

Cognitive Domain: Knowledge

Answer Location: Positron Emission Topography

Difficulty Level: Easy

8. Intracranial EEGs measure brain activity when electrodes are placed directly on the surface of the brain.

Ans: T

Cognitive Domain: Comprehension

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Answer Location: EEG (Electroencephalography)

Difficulty Level: Medium

9. Magnetoencephalography (MEG) uses an electrical sensor to detect small magnetic fields produced by electrical activity in the brain.

Ans: F

Cognitive Domain: Knowledge

Answer Location: Magnetoencephaloraphy (MEG)

Difficulty Level: Easy

10. The thalamus is an area of the brain heavily connected to other areas of the brain. It appears to serve as a routing center, however, this routing center must have connected relay points to human memory circuits. The routing centers are known as diencephalons.

Ans: T

Cognitive Domain: Comprehension Answer Location: Diencephalon

Difficulty Level: Medium

11. The hypothalamus area of the brain is associated with basic emotions. To separate these emotions into emotional learning, fear, and memory, this information is transmitted by the amygdala.

Ans: T

Cognitive Domain: Comprehension

Answer Location: Amygdala Difficulty Level: Medium

12. Engram is the hypothetical physical unit of storage of a memory.

Ans: T

Cognitive Domain: Knowledge

Answer Location: Old Questions, New Answers

Difficulty Level: Easy

13. To a behavioral neuroscientist the brain is a complex assortment of separate areas and regions, each of which has its own unique function.

Ans: F

Cognitive Domain: Comprehension Answer Location: Memory and the Brain

Difficulty Level: Medium

14. The medial temporal lobe is associated with higher emotions, decision-making, metacognition, and memory. Damage to this area affects the fight or flight emotional response. This response can be associated with the prefrontal cortex.

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Ans: F

Cognitive Domain: Analysis Answer Location: Frontal Lobe

Difficulty Level: Hard

15. Memory can be enhanced, however, to date, no drug has been shown to improve memory efficiency in normal adults. On the other hand, there is no doubt that some drugs prevent the formation of new memories. The only prescription drugs available to improve memory are chloinergics.

Ans: T

Cognitive Domain: Comprehension

Answer Location: Chemical Enhancement of Memory

5. Terminal buttons are the ends of axon that hold _____.

Difficulty Level: Medium

Ans: neurotransmitters

Short Answer

1. Engram is the hypothetical physical unit of of a memory. Ans: storage Cognitive Domain: Knowledge Answer Location: Old Questions, New Answers Difficulty Level: Easy
2. Sudden and devastating injuries to the brain are called brain injuries. Ans: traumatic Cognitive Domain: Comprehension Answer Location: Brain and Memory Difficulty Level: Medium
3. The electrochemical process of transmission in an axon is known as action Ans: potential Cognitive Domain: Knowledge Answer Location: Neurons Difficulty Level: Easy
4. The parts of the neuron that receive sensory receptors are called Ans: dendrites Cognitive Domain: Knowledge Answer Location: Neurons Difficulty Level: Easy

Schwartz, *Memory: Foundations and Applications, 3e* SAGE Publishing, 2018

Cognitive Domain: Knowledge Answer Location: Neurons Difficulty Level: Easy

Difficulty Level: Hard

6. A disease that causes the loss of myelin along axons, resulting in movement deficits
is known as multiple sclerosis. Transmission of information in the axons, in contrast, is
Ans: electrochemical Cognitive Domain: Comprehension Answer Location: Neurons Difficulty Level: Medium
7. The brain is divisible into two halves, oriented in the left-right direction. Ans: symmetrical Cognitive Domain: Knowledge Answer Location: Structures of the Human Brain Difficulty Level: Easy
8. Parts of the thalamus are crucial in the transmission of information from our sensory organs. However, with respect to memory there are massive connections which must occur. This occurrence is known as, which is involved in memory as well. Ans: diencephalon Cognitive Domain: Comprehension Answer Location: Diencephalon Difficulty Level: Medium
9. An individual was involved in a traumatic occurrence and was feeling dizzy with severe migraine headaches. The emergency room clinician decided to run to observe changes in cognition and behavior. Ans: TMS, tDCS, and DBS Cognitive Domain: Analysis Answer Location: Brain Stimulation Techniques Difficulty Level: Hard
10. A clinician observes a patient requesting pain alleviation from Parkinson's disease. The patient is experiencing extreme motor disorders and major depression. The clinician suggests the device that requires implantation for medical reasons. Ans: DBS Cognitive Domain: Analysis Answer Location: Brain Stimulation Techniques

Essay

1. Describe the flow of information through the neuron, including how information is transmitted through the axon, dendrite, and synapse.

Ans: neurotransmitters, electrical impulse, positive and negative charge, and nucleus.

Cognitive Domain: Comprehension

Answer Location: Neurons Difficulty Level: Medium

2. Explain the four main anatomical areas of the cerebral cortex and the function of each.

Ans: Frontal, Temporal, Parietal, Occipital, vision, attention, language, memory, emotion, and decision-making.

Cognitive Domain: Analysis

Answer Location: Cortical Areas of the Brain Associated With Memory

Difficulty Level: Hard

3. List the six areas of the gross anatomy of the human brain.

Ans: Frontal, Lateral, Temporal, Occipital, Parietal, and Central Sulcus.

Cognitive Domain: Knowledge

Answer Location: Structures of the Human Brain

Difficulty Level: Easy

4. Explain the role of the neurotansmitters in neural circuits.

Ans: inhibit and excite.

Cognitive Domain: Comprehension Answer Location: Neurotransmitters

Difficulty Level: Medium

5. Describe the use of Acetylchlorine by neurons.

Ans: innervate and muscle control. Cognitive Domain: Comprehension Answer Location: Neurotransmitters

Difficulty Level: Medium

6. Name the subcortical structures of the brain and describe the function of two of those areas.

Ans: Thalamus, Hippocampus, Amygdala, and Corpus Callosum.

Cognitive Domain: Comprehension Answer Location: Subcortical Structures

Difficulty Level: Medium

7. Describe the cortical areas of the brain associated with memory.

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Ans: Parietal Lobe, Occipital Lobe, Frontal Lobe, and Temporal Lobe.

Cognitive Domain: Comprehension

Answer Location: Cortical Areas of the Brain Associated With Memory

Difficulty Level: Medium

8. What is mean by the term engram and what did Lashley hope to achieve by

identifying it?

Ans: Hypothetical physical unit of memory storage.

Cognitive Domain: Comprehension

Answer Location: Old Questions, New Answers

Difficulty Level: Medium

9. Describe how benzodiazepines and cholinergics affect memory. Ans: Memory, anxiety, insomnia, memory loss, and Alzheimer's.

Cognitive Domain: Comprehension

Answer Location: Chemical Enhancement of Memory