

## REVIEW TEST

### Chapter 2, PSY 111

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) What perspective would a psychologist likely use in describing why human beings have learned better ways to build shelters that stand up to severe weather?
- A) cognitive
  - B) humanistic
  - C) historical
  - D) evolutionary

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- 2) What do we call cells that detect stimuli?
- A) neurons
  - B) receptors
  - C) effectors
  - D) sensory tracts

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- 3) Dan is about to put his left hand in the tub to determine if the water is too hot for bathing his son. Which part of his nervous system will receive input concerning the water temperature?
- A) efferent nerves
  - B) left hemisphere
  - C) right hemisphere
  - D) autonomic nervous system

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- 4) While you were driving down a busy street, a child ran in front of your car. You slammed on the brakes and managed to avoid hitting him. Now your heart is racing, you are perspiring, and your stomach is doing "flip-flops." Which component of the nervous system controls these reactions?
- A) central
  - B) somatic
  - C) sympathetic
  - D) parasympathetic

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- 5) Jerking your hand away after touching a very hot pan results from the activity of the
- A) brain.
  - B) thalamus.
  - C) spinal cord.
  - D) hypothalamus.

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- 6) Which endocrine gland controls several other glands?
- A) thyroid
  - B) adrenal
  - C) thymus
  - D) pituitary

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- 7) Eight-year-old John is already six feet tall. A team of medical specialists is trying to determine the reason for John's unusual height for his age. The team believes that the height is the result of overactivity of one of the endocrine glands. Which gland will be the focus of their examination?
- A) thyroid
  - B) adrenal
  - C) pancreas
  - D) thymus

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- 8) Which of the following does the body require in order to manufacture thyroid hormones?
- A) calcium
  - B) lithium
  - C) potassium
  - D) iodine

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- 9) Tim's parents have taken him to an endocrinologist to determine if a malfunction of one of his endocrine glands is responsible for his protruding eyes, irritability, and wild stare. Which endocrine gland will be the focus of diagnostic testing?
- A) adrenal
  - B) thymus
  - C) thyroid
  - D) pancreas

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- 10) The ovaries produce \_\_\_\_\_, whereas the testes produce \_\_\_\_\_.
- A) estrogens; androgens
  - B) prolactin; vasopressin
  - C) vasopressin; prolactin
  - D) testosterone; estrogens

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- 11) Rick notices that lately his voice has been getting deeper and hair is growing on his chest. Which gland is producing hormones that are responsible for these changes?
- A) gonads
  - B) adrenal
  - C) pancreas
  - D) pituitary

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- 12) What is the function of the myelin sheath?
- A) to protect the soma
  - B) to monitor neural activity
  - C) to speed neural transmission
  - D) to produce neurotransmitters

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- 13) Some neurotransmitters make it more likely that a neuron will send its message to other neurons, a process known as \_\_\_\_\_; whereas some make it less likely that a neuron will send its message, a process known as \_\_\_\_\_.
- A) excitation; inhibition
  - B) inhibition; excitation
  - C) augmentation, depletion
  - D) depletion, augmentation

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- 14) Reduced levels of which neurotransmitter lead to Parkinson's disease?
- A) GABA
  - B) dopamine
  - C) serotonin
  - D) acetylcholine

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- 15) Sara has been experiencing a serious memory problem. An interdisciplinary team has ruled out a range of causes and believes that a neurotransmitter is involved. Which neurotransmitter is most likely involved in this problem?
- A) GABA
  - B) dopamine
  - C) serotonin
  - D) acetylcholine

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- 16) Andy has decided to seek medical help for a serious sleep difficulty, mood disturbance, and appetite problems. Which neurotransmitter is most likely involved in the problems Andy is experiencing?
- A) GABA
  - B) dopamine
  - C) serotonin
  - D) norepinephrine

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- 17) What term is used for drugs that enhance the operation of neurotransmitters?
- A) agonists
  - B) antagonists
  - C) neuromodulators
  - D) opioid peptides

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- 18) Which neurotransmitter is found in the brain, spinal cord, and synapses of the parasympathetic nervous system?
- A) serotonin
  - B) dopamine
  - C) norepinephrine
  - D) acetylcholine

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- 19) Which of the following is the most accurate description of endorphins?
- A) plant-derived treatment for severe pain
  - B) opium-like chemicals found in the body
  - C) toxin that can cause a loss of neurons in the brain
  - D) treatment for a variety of disturbances in motor movement

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- 20) Every day you see Ted running as hard as he can. You wonder why he likes to sweat so much and work so hard. When you ask, he tells you he does not feel pain; in fact, he talks about a "runner's high." A physiological psychologist might attribute this runner's high to the operation of
- A) dopamine.
  - B) serotonin.
  - C) endorphins.
  - D) interphones.

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- 21) While on a field trip to a hospital you overhear a conversation focused on the results of some diagnostic tests. There was frequent use of the words alpha, theta, and beta. Based on these references, you conclude that the topic of the conversation was a(n)
- A) angiogram.
  - B) electroencephalogram.
  - C) positron emission tomography scan.
  - D) computerized axial tomography scan.

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- 22) You are in the hospital about to undergo a brain imaging process that involves taking many X-rays from different angles. What type of imaging is described?
- A) electroencephalography (EEG)
  - B) magnetic resonance imaging (MRI) scan
  - C) positron emission tomography (PET) scan
  - D) computerized axial tomography (CT) scan

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- 23) Which method of studying the brain provides the clearest pictures of the brain?
- A) electroencephalography (EEG)
  - B) magnetic resonance imaging (MRI)
  - C) computerized axial tomography (CT)
  - D) positron emission tomography (PET)

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- 24) How does a PET scan provide information about the functioning of the brain?
- A) a computer interprets X-rays
  - B) makes a record of radio waves directed to the brain
  - C) monitors the radioactivity level of different areas of the brain
  - D) records electrical activity from electrodes placed on the skull surface

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- 25) A neuroscientist is going to present a talk on the human brain and how it compares to the brains of other animals. Which of the following is the best title for the talk?
- A) "Largest on the planet"
  - B) "Size is not the only factor"
  - C) "Few differences noted across species"
  - D) "Evolution endows us with larger brain neurons"

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- 26) While driving, Sam was directed by a police officer to pull off the highway. The officer suspected that Sam had been drinking and asked him to walk a straight line. If Sam had been drinking he would have difficulty with this maneuver as a result of the effects of alcohol on the
- A) pons.
  - B) cerebellum.
  - C) hippocampus.
  - D) hypothalamus.

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- 27) What is the main function of the reticular formation?
- A) to control thinking
  - B) to regulate emotions
  - C) to control levels of alertness
  - D) to coordinate muscular movements

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- 28) What fibers connect the two hemispheres of the brain?
- A) thalamus
  - B) cerebral cortex
  - C) reticular formation
  - D) corpus callosum

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- 29) Subcortical structures such as the amygdala are located beneath the
- A) soma.
  - B) brain stem.
  - C) spinal cord.
  - D) cerebral cortex.

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- 30) What is the "great relay station" of the brain?
- A) pons
  - B) thalamus
  - C) hippocampus
  - D) corpus callosum

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- 31) Which brain structure contains different tracts so that sensory information can be divided and sent to different brain areas for vision, hearing, and other senses?
- A) thalamus
  - B) cerebellum
  - C) hypothalamus
  - D) reticular formation

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- 32) During a visit to a physiological psychology laboratory a group of students was able to view a preserved human brain. Most of them had never seen a human brain except in drawings or photographs. The brain reminds each of them of something that could be used as an analogy. Which of the following students offers an analogy that provides the best fit to the human brain's visual appearance?
- A) John says the brain looks like an egg.
  - B) To Elizabeth, the brain looks like a carrot.
  - C) To Mary, the brain looks like a cauliflower.
  - D) Gavin says the brain reminds him of a tomato.

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- 33) A stroke left Dan unable to speak. A neurologist suspects that damage occurred in Dan's
- A) left frontal lobe.
  - B) left parietal lobe.
  - C) right temporal lobe.
  - D) right occipital lobe.

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- 34) A neurologist examines a patient who cannot see despite any evidence of damage to the eye. The neurologist suspects the patient has brain damage. Which of these parts of the brain would the neurologist hypothesize is the location of the damage?
- A) hypothalamus
  - B) parietal lobes
  - C) corpus callosum
  - D) occipital lobes

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- 35) A series of MRI scans reveal the presence of a tiny tumor on a patient's occipital lobes. A medical team decides that surgery is not necessary at this point because the tumor is not cancerous; however, they want to keep track of any growth in the tumor. They ask a neuropsychologist to administer periodic tests in order to determine if the tumor has grown. Which of the following tests would be most helpful to the medical team?
- A) a vision test
  - B) a test of strength in the left and right arms
  - C) a list of orally presented words that must be defined
  - D) a test of memory for events that occurred during childhood

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36) What term would a neuropsychologist use for a deficit in nonverbal skills?

- A) alexia
- B) aphasia
- C) apraxia
- D) aprosodia

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37) Penny suffered brain damage in an auto accident. As a result, she has lost the ability to express emotion. She is exhibiting

- A) motor aphasia.
- B) motor aprosodia.
- C) emotive aphasia.
- D) emotive aprosodia.

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38) The records of a patient indicate that he underwent an operation called a hemispherectomy. When you ask about this what are you told?

- A) An entire hemisphere was removed in order to save the patient's life.
- B) Connections between the two hemispheres were severed to reduce aggression.
- C) An electrical shock devise was implanted in order to "reawaken" dying neurons.
- D) Using stereotaxic instruments, connections between the cortex and the limbic system were cut.

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39) A reporter at the local newspaper was asked to write a story on new and exciting findings in behavioral neuroscience. The editor suggested neurogenesis. Because the reporter is not familiar with the term he asked you. How will you describe this phenomenon?

- A) The brain creates its own new neurotransmitters, which accounts for our individuality.
- B) Contrary to past beliefs, new neurons can be created in the brain long after we are born.
- C) Scientists have found that some our memories are capable of being encoded in our genes.
- D) Toxins in our environment are creating a new type of brain cell that is causing serious problems.

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40) What disorder have neurosurgeons treated by cutting the corpus callosum?

- A) epilepsy
- B) schizophrenia
- C) Alzheimer's disease
- D) Parkinson's disease

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**ANSWERS TO REVIEW QUESTIONS**

- 1) D
- 2) B
- 3) C
- 4) C
- 5) C
- 6) D
- 7) A
- 8) D
- 9) C
- 10) A
- 11) A
- 12) C
- 13) A
- 14) B
- 15) D
- 16) C
- 17) A
- 18) D
- 19) B
- 20) C
- 21) B
- 22) D
- 23) B
- 24) C
- 25) B
- 26) B

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27) C

28) D

29) D

30) B

31) A

32) C

33) A

34) D

35) A

36) C

37) B

38) A

39) B

40) A