

LABORATORY ASSESSMENT 27

Name _____

Date _____

Section _____

The **27** corresponds to the indicated Learning Outcomes found at the beginning of the Laboratory Exercise.

Nervous Tissue and Nerves

PART A: Assessments

Match the terms in column A with the descriptions in column B. Place the letter of your choice in the space provided.

Column A

- a. Astrocyte
- b. Axon
- c. Collateral
- d. Dendrite
- e. Myelin
- f. Neurolemma
- g. Neurofibrils
- h. Nissl bodies (chromatophilic substance)
- i. Unipolar neuron

Column B

- _____ 1. Sheath of Schwann cell containing cytoplasm and nucleus that encloses myelin
- _____ 2. Corresponds to rough endoplasmic reticulum in other cells
- _____ 3. Network of threadlike structures within cell body and extending into axon
- _____ 4. Substance of Schwann cell composed of lipoprotein that insulates axons and increases impulse speed
- _____ 5. Neuron process with many branches that conducts an action potential (impulse) toward the cell body
- _____ 6. Branch of an axon
- _____ 7. Star-shaped neuroglia between neurons and blood vessels
- _____ 8. Nerve fiber arising from a slight elevation of the cell body that conducts an action potential (impulse) away from the cell body
- _____ 9. Possesses a single process from the cell body

PART B: Assessments

Match the terms in column A with the descriptions in column B. Place the letter of your choice in the space provided.

Column A

- a. Effector
- b. Ependymal cell
- c. Ganglion
- d. Interneuron (association neuron)
- e. Microglia
- f. Motor (efferent) neuron
- g. Oligodendrocyte
- h. Sensory (afferent) neuron

Column B

- _____ 1. Transmits impulse from sensory to motor neuron within central nervous system
- _____ 2. Transmits impulse out of the brain or spinal cord to effector (muscles and glands)
- _____ 3. Transmits impulse into brain or spinal cord from receptor
- _____ 4. Myelin-forming neuroglia in brain and spinal cord
- _____ 5. Phagocytic neuroglia
- _____ 6. Structure capable of responding to motor impulse
- _____ 7. Specialized mass of neuron cell bodies outside the brain or spinal cord
- _____ 8. Cells that line cavities of the brain and secrete cerebrospinal fluid

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Roman Wölfel



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