

LABORATORY ASSESSMENT 27

Name _____

Date _____

Section _____

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

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 neurons 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

Ap Lab Manual Answer Key

Padhraic Smyth



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generating a substructure a single analysis can include multiple substructure generate steps and abaqus cae creates corresponding output database files for each step multiple preloading steps can precede every substructure generation step in your analysis

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this example shows you how to create a substructure and use it four times in the model as a leg support for storage vessel

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a substructure database is the set of files that describe the mechanical and geometrical properties of a substructure and abaqus writes all substructure data to the substructure database during the substructure generation analysis

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the basic substructuring idea is to consider a substructure a part of the model separately and eliminate all but the degrees of freedom needed to connect this part to the rest of the model so that the substructure appears in the model as a substructure a collection of finite elements whose response is defined by the stiffness and mass o

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in abaqus standard the response within a substructure once it has been reduced to a substructure is considered to be a linear perturbation about the state of the substructure at the time it is made into a substructure

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set this parameter equal to yes default if the substructure eigenproblem needs to be solved during substructure generation in abaqus substructure eigenvectors can be used to define substructure modal damping for a given substructure abaqus standard will evaluate the stiffness associated with frequency dependent springs and dashpots at

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the purpose of this example is to provide basic demonstration and verification of the substructuring capabilities in abaqus problem description the example is a frame consisting of two columns connected by a beam figure 1 16 1 1 the columns and the beam are each modeled with 10 elements of type b21 once a substructure has been

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