

# Lab Exam 2 Objectives

## Nervous System

### Nerve Tissue

axon of motor (efferent) neuron	neurofibrils
axon of sensory (afferent) neuron	neuromuscular junction
cell body of neuron	Nissl bodies
dendrites of motor (efferent) neuron	node of Ranvier
dendrites of sensory (afferent) neuron	nucleus of neuron
dorsal root (spinal) ganglion	nucleus of Schwann cell
interneuron	receptor
muscle fiber	synapse
myelin sheath	synaptic knob

### Spinal Cord, Spinal Nerves & Reflex Arcs

anterior median fissure	pia mater
anterior (ventral) root	posterior median sulcus
arachnoid mater	posterior (dorsal) root
cauda equina	postganglionic efferent neuron
central canal	preganglionic efferent neuron
collateral ganglion	receptor
denticulate ligament	sensory (afferent) neuron
dorsal root (spinal) ganglion	spinal nerve
dura mater	subarachnoid space
effector	subdural space
epidural space	vertebral autonomic (sympathetic chain)
gray matter	ganglion
interneuron	visceral afferent neuron
meninges	white matter
motor (efferent) neuron	

### Brain Anatomy

aqueduct of Sylvius (cerebral aqueduct)	fornix
arachnoid mater	fourth ventricle
central sulcus	frontal lobe
cerebellum	gray matter
choroid plexus of third ventricle	hypophysis (pituitary gland)
corpora quadrigemina	hypothalamus
corpus callosum	inferior colliculi
dura mater	infundibulum

## **Brain Anatomy (continued)**

intermediate mass of thalamus  
lateral cerebral fissure  
lateral ventricles  
medulla oblongata  
midbrain  
occipital lobe  
olfactory bulb  
olfactory tract  
optic chiasma  
optic nerve (II)  
optic tract  
parietal lobe  
pia mater  
pineal gland (body)

longitudinal cerebral fissure  
mamillary body  
pons  
pyramid  
superior sagittal sinus  
septum pellucidum  
spinal cord  
subarachnoid space  
subdural space  
superior colliculi  
temporal lobe  
thalamus  
third ventricle  
white matter

## **Histology**

Identify the following on a slide of nerve tissue

cell body  
neuroglia  
nucleus  
processes of cell body

## **Sense Organs**

### **Anatomy of the Eye**

anterior cavity  
aqueous humor  
blind spot (optic disk)  
choroid coat  
ciliary body  
ciliary process  
conjunctiva  
cornea  
fovea centralis  
iris  
lacrimal duct  
lacrimal gland

lacrimal sac  
lens  
macula lutea  
nasolacrimal duct  
optic nerve  
posterior cavity  
pupil  
retina  
scleroid coat  
suspensory ligaments  
vitreous body

## **Anatomy of the Ear**

auricle (pinna)  
cochlea  
cochlear duct  
cochlear nerve fibers  
Eustachian tube  
external auditory canal  
incus  
labyrinth  
malleus  
organ of Corti  
oval window

round window  
scala tympani  
scala vestibuli  
semicircular canals  
stapes  
temporal bone  
tympanic membrane  
vestibular nerve  
vestibule  
vestibulocochlear nerve (VIII)

## **Endocrine System**

adenohypophysis (anterior pituitary)  
adrenal gland  
neurohypophysis (posterior pituitary)  
ovary  
pancreas

parathyroid glands  
pineal gland (body)  
testis  
thymus gland  
thyroid gland