Lab 11 To Do List

Lab Manual Exercise 13 —Nervous System Histology

Activities 1-2: Nervous Tissue Histology

Examine varieties of neurons and glial cells: motor neuron, neurons in brain (cerebrum, cerebellum; note also gray matter vs white matter), dorsal root ganglion; and myelinated axons (demo slides)

Activity 3: Structure of a peripheral nerve — Nerve cross section slide: identify axons, fascicles, and connective tissue sheaths

Activity 4: General sensory receptors

Identify tactile and lamellar corpuscles on slides (demos)
Identify sensory receptors on skin models and know functions of each
Identify muscle spindle on demo slide

Handout: Testing the General Senses & Spinal Reflexes

Test for following reflexes: patellar, biceps, triceps, and ankle calcaneal
Perform the following tests for the general senses: 2-point discrimination, tactile receptor distribution, thermoreceptors, receptor adaptation, and proprioception

Lab Manual Exercise 15 — Spinal Cord Anatomy

Spinal Cord Dissection & Microscope slide (pp283-284)

Use dissecting scope for both spinal cord (make thin slice) and microscope slide

Exercise 13 Questions

Draw your observations of the following slides (label structures on list):

Cross section of peripheral nerve
Tactile corpuscle, lamellar corpuscle, muscle spindle
Teased nerve
Cerebellum (show overall structure at 40x; Purkinje cells at 400x)
Cerebral cortex: show pyramidal cells (with axons if visible)
Dorsal root ganglion
Spinal cord cs (use low power or dissection scope)

Answer **Review Questions 8, 11**

Exercise 15 Questions

Answer **Review Questions 2, 9**