

LAB RESPONSIBILITY SHEET - EXERCISES 4 and 5

Exercise 4

Know the characteristics of the 4 main tissue types- epithelial, connective, muscle, nervous

Epithelial Tissue

Classified according to cell shape: squamous, cuboidal, columnar

Classified according to # of layers: simple, stratified

Slides:

Simple squamous

Simple cuboidal

Simple columnar- goblet cells

Pseudostratified ciliated columnar- cilia

Stratified squamous

Transitional

Muscle Tissue

Complete Chart 4.1 (p. 54)

Slides:

Skeletal muscle- striations (stripes along fiber)

Smooth muscle

Cardiac muscle- striations and intercalated disks

Nervous Tissue

On a diagram of a neuron be able to identify: nucleus, dendrites, axon, cell body

Slide:

Neuron in spinal cord smear

Connective Tissue

Slides:

Loose (areolar) connective tissue- elastic fibers; fibrocyte cells

Adipose- empty vacuoles

Hyaline cartilage- chondrocyte (nucleus); lacuna

Elastic cartilage- chondrocyte (nucleus); lacuna

Ground bone- osteon units, central canal

Vascular tissue (blood)- red blood cells, white blood cells; platelets

Exercise 4 Review Questions: 1, 2, 3, 4, 5, 7, 8, 10, 11, 13, 14, 15, 16, 19

Exercise 5

Figures 5.1 and 5.2 – all

Exercise 5 Review Questions: 1, 2, 3, 8, 9, 10, 14, 19