Instructor Set-up:

Station One:

Slide of simple cuboidal epithelium

* 1. Identify the tissue

Description: This tissue has round, centrally located nuclei. It is commonly found in areas for secretion and absorption. This tissue type can be found in the kidneys

Station Two:

Slide of Transitional epithelium

1. Identify the tissue

Description: This tissue’s arrangement allows for it to stretch. It can be found in the ureters

Station Three

Slide of Hyaline Cartilage

1. Identify the tissue

Description: This tissue can be found on the articular surface of bones.

Station Four

Slide of Hyaline Cartilage

Questions based on hyaline cartilage slide:

1. What is the major cell type located in this type of connective tissue?
2. What is the name of the structure in which the cell is located?

Station five:

Slide of Onion Root Tip: Metaphase

1. Identify the stage of mitosis

Station six:

Slide of onion root tip: Prophase

1. Identify the stage of mitosis

Station seven

Slide of stratified squamous epithelium

1. Identify the tissue

Description: This tissue contains a protein called keratin to help prevent abrasions

Station eight

Microscope: Indicate the ocular lens

1. Identify this structure of the microscope

Question based on the ocular lens

1. What is the magnification of this lens alone?

Station nine

Microscope: Indicate the coarse adjust knob

1. Identify this structure on the microscope

Question based on coarse adjust knob

1. At which magnification(s) can the above adjustment knob be used?

Station ten:

Provided Image: Anatomical region: (Patellar)

1. Identify this anatomical region

Question

1. The diaphragm is \_\_\_\_\_\_\_\_ to the urinary bladder

Station Eleven:

Provided Image: Anatomical region: (antecubital)

1. Identify this anatomical region

Question

1. Consider the cell cycle. At what stage of interphase does DNA replication take place?

Station Twelve

Provided image: Section: (Transverse)

1. Identify the type of section

Question

1. Where is fibrocartilage located?

Station Thirteen

Provided image: Anatomical region: (gluteal)

1. Identify this anatomical region

Question:

1. The wrist is \_\_\_\_\_\_\_\_\_\_\_\_\_ to the elbow

Station Fourteen

Provided image: Anatomical region: (Lumbar)

1. Identify this anatomical region

Question

1. The heart is \_\_\_\_\_\_\_\_\_\_\_\_\_ to the lungs

Station Fifteen

Slide of bone/osteon

1. Identify this tissue

Question based on bone slide

1. What is the space in the middle of each Haversian system that allows for blood vessels?

Station Sixteen

Provided image: Anatomical region: (axillary)

1. Identify this anatomical region

TA Answer key

1. Simple cuboidal epithelium
2. Transitional epithelium
3. Hyaline cartilage
4. Fibroblast
5. Lacunae
6. Metaphase
7. Prophase
8. Stratified squamous epithelium
9. Ocular lens
10. 10X
11. Course adjust knob
12. (b)Used only with 40X (Scanning lens)
13. (e) patellar
14. (b) superior
15. (d) antecubital
16. (a) S
17. Transverse plane (cross section is ok)
18. (c) intervertebral disks
19. (d) gluteal
20. (b) distal
21. (b) lumbar
22. (d) medial
23. Bone or osteon
24. Haversian canal or Central canal
25. (c) axillary