

## Light Microscopy Questions

- 1) What is the function of the diaphragm?
- 2) Describe the advantage of having a microscope of highest resolution.
- 3) Calculate the magnification of the lens system of the following:
  - a) Ocular-10X Objective-10X
  - b) Ocular-10X Objective-43X
  - c) Ocular-10X Objective-1X
  - d) Ocular-10X Objective-2X
- 4) What is the most important attribute of a microscope?

## Virtual Light Microscopy Questions

- 1) How many individual cells can you count at the following objective powers of magnification?
  - a) 10X
  - b) 40X
  - c) 100X
- 2) If the eyepiece has a 10X power, what is the total magnification when you observe cells at objective power of 40X?
- 3) At what power are you able to discern the nucleus of the cells? (The nucleus is the large, darker organelle located near the center of the cell)
- 4) Describe what happens if there is too much illumination.

## Virtual Electron Microscopy Questions

- 1) How many stem cells can you count?
- 2) Which of the cells are larger the stem cells or the T-cell
- 3) Which cell is the largest?
- 4) Describe the shape of the Red Blood cell
- 5) What do you think the pinkish strands are around the nerve fibers
- 6) Does the electron microscope allow a higher degree of magnification than the light microscope? Why?