HUMAN ANATOMY & PHYSIOLOGY I

STUDY GUIDE FOR LAB PRACTICAL I *INSTRUCTOR: CJ SHUSTER*

-you must <u>also know all diagrams</u> from your lab book (including associated word lists).
-you must know all microscope slides and dissections as outlined on this study guide.
-you are also responsible for the wall charts.

THIS IS A REVIEW, AND <u>DOES NOT INCLUDE</u> DRAWINGS, VALUES ETC. FROM THE MANUAL!!!!!!! THIS IS NOT A CONTRACT!!! My only guarantee is that this will cover 90-95% of the items seen on the lab practicals.

<u>CHAPTER 3-CELL STRUCTURE</u>:

A. GENERAL TERMS:

organelles
cell membrane
golgi apparatus
lysosome
mitochondria
nuclear envelope
nucleolus
nucleus
pinocytosis
RER (rough endoplasmic reticulum)
ribosomes
SER (soft endoplasmic reticulum)
vacuole
phagocytosis
cilia
flagella
microvilli
microtubule

<u>CHAPTER 4-MITOSIS</u>

* = know from slides

mitosis
daughter cells
cytokinesis
interphase (NOT a phase of mitosis!)*
prophase*
chromosomes*
chromatids
centromere
spindle/mitotic spindles*
DNA
asters/microtubules*
centrioles
metaphase*
equator
anaphase*
sister chromatids*
telophase*
cleavage furrow
nuclear envelope
metaphase plate

Guide for Cell Anatomy & Mitosis Labs

This is a guide for what the student should learn off of the various models, dissections, etc. This is a guide only; it is not an exclusive list.

Models/Charts found in Regular Lab & Learning Lab

Animal Cell Model:
Know everything off the images in lab book.

Golgi Model:
Be able to ID it. Know the function of the golgi.

Mitochondria Model:
Be able to ID it. Know the function of the mitochondria. Know any parts of the mitochondria that are in your lab book.

Centriole Model:
Be able to ID it. Know the function of the centriole.

Animal Cell Chart:
Know everything off the images in lab book.

Laminated pictures of animal cell (NOTE: there is a picture of a plant cell on the back; ignore it!):
Know everything off the images in lab book.

Mitosis Models: ID the stages, put them in order, be able to ID chromosomes, spindle fibers, nuclei, chromatids, telophase plate/cleavage furrow, any other term on word list you can see.

Mitosis Handout: Student can take one home!

Wall Chart, Mitosis:
Know everything off the images in lab book.

The following models will not be in the learning lab
The slides on the "demonstration scopes" will not be in the learning lab.

Dissections
There are no dissections for this lab

Slides:
ID the stages of mitosis. Know all the structures you saw on the models.