Bangkok Christian College

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class No.\_\_\_\_\_\_\_\_\_ No.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Microscopy Practical

Circle the microscope numbers you must complete and then follow the directions in order to complete this Practical Exam. After each microscope, **except for #1**, put the stage down, adjust objective lens to **4x**, remove the slide and place it on the corner of the stage.

Microscope 1 **DO NOT TOUCH SETTINGS** (specimen: Stratum Tier Epithelial Tissue)

Observe the specimen under the microscope, but DO NOT TOUCH any of the settings on the microscope. Draw the structure which the pin is pointing to on the slide.

Indicate the total magnification that the microscope is set on.

Also, if you could adjust one part of the microscope to get a better image of the specimen, which one would it be and why?

Total Magnification: Adjustment:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Micrsocope 2 (specimen: Newly Hatched Larva Silkworm)

Adjust the micrsope to the 10x objective lens. How many legs are visible?

# of Legs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Microscope 3 (specimen: Hydra)

Draw a part of the structure of Hydra in both 4x and 10x. The same part of the specimen should be drawn for each magnification.

Microscope 4 (specimen: Butterfly Antenna)

Instructions: Indicate how many segments are visible on the entire slide.

 =shapes like these represent a segment = shapes like these do not represent a segment

# of segments \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Microscope 5 (specimen: Volvox)

There are approximately 8 different volvox cells on the slide. Find the one with medium-sized circles. Draw this cell. (Make sure to draw all of the structures you see as accurately as possible.

Indicate how many circles are within this cell.