

BIOL 2250L – Microbiology for the Health Sciences
Lab Report - Microscopy

Name: _____ Lab Section: _____

Part A – Total Magnification:

1. If the 10x eyepiece and the 10x objective was used, what will be the total magnification?
2. If the 10x eyepiece and the 100x objective was used, what will be the total magnification?

Part B – Understanding The Use Of The Microscope

1. Why would it be more difficult to measure the diameter of the field of vision when going from a low power to high power?
2. How does the light intensity change when a student goes from a low power objective to a high power objective?

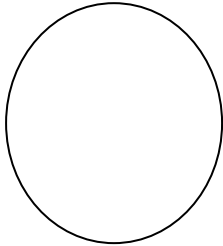
Part C – Matching Microscope Parts

- | | |
|---|--------------------|
| _____ 1. Increases or decreases the light intensity | A. Stage |
| _____ 2. Platform that supports a microscope slide | B. Stage clip |
| _____ 3. Concentrates light unto the specimen | C. Condenser |
| _____ 4. Holds microscope slide in position | D. Field of vision |
| _____ 5. Serves as a handle for carrying the microscope | E. Arm |
| | F. Iris diaphragm |
| | G. Objective lens |
| | H. Nosepiece |

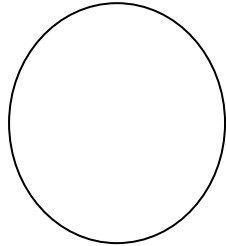
Part D – Focusing Specimens

Prepare sketches of the prokaryotes and eukaryotes you observed using the microscope.

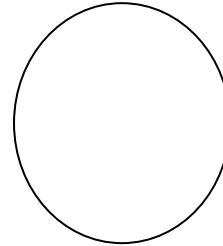
Eukaryotes



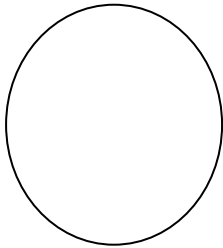
Penicillium 40x



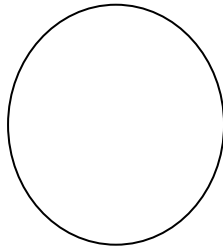
Rhizopus 40x



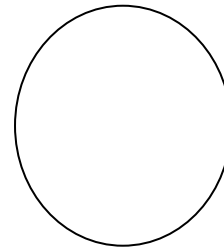
Aspergillus 40x



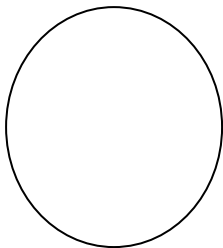
Yeast 100x



Peridinium 40x

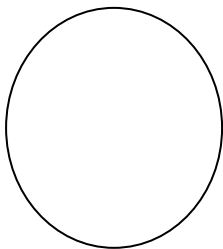


S. mansoni 40x

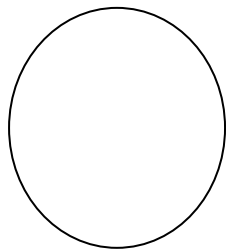


T. gambiense 100x

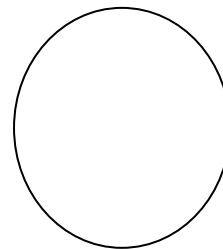
Prokaryotes



Coccus 100x



Bacillus 100x



Spirillum 100x