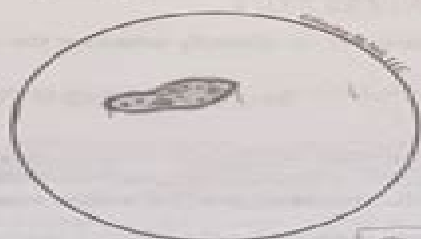




Lab 1: Worksheet

1. The fine adjustment adjustment knob of a compound microscope can be adjusted to maximize the resolution. The condenser lens focus the light at the level of the specimen.
2. True or False? You can use either the coarse or fine focus when viewing through the 10 $\times$ objective. False (use fine focus)
3. The *Paramecium* below was viewed through a 40 $\times$ objective lens. Estimate the length (i.e., the longest dimension) of this organism in millimeters.



$$\begin{aligned}
 \text{Actual size of cell} &= \frac{\text{diameter of field of view}}{\% \text{ of times organism can fit in field of view (largest dimension)}} \\
 40\times &= 0.44\text{mm} \\
 &= \frac{0.44\text{mm}}{\text{approx } 3.5} \\
 &= 0.125714\ldots\text{mm} \\
 \text{Paramecium is } &0.13\text{mm}
 \end{aligned}$$

4. Fill in the blank:
 - a. Prokaryotic organisms include two major groups, bacteria and archaea. Eukaryotes are comprised of four major groups: protists, fungi, plants, and animals.
 - b. Prokaryotes have a cell wall made of polysaccharides and amino acids, while the same structure in plants is composed of cellulose and in fungi is chitin.
 - c. Prokaryotic DNA is typically organized in a single circular chromosome, located in the nucleoid region. Eukaryotes, in contrast, store DNA in their nucleus.
 - d. Some bacterial cells have a gelatinous outer covering called a glycocalyx. What is the function of this structure?
 - Protects the bacterium from desiccation
 - Traps water
 - e. Other bacteria use rotating flagella for locomotion.

Vista Suenas Lab Manual Answers

JL Elias

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

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