



Lab 1: Worksheet

1. The iris diaphragm adjustment lever 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 10X objective. False (use fine focus)
3. The *Paramecium* below was viewed through a 40X objective lens. Estimate the length (i.e., the longest dimension) of this organism in millimeters.



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

Paramecium at 0.13mm

4. Fill in the blanks:
 - 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.

Biological Science 1409 Lab Manual Answers

A Gutmann



Biological Science 1409 Lab Manual Answers:

Biological Sciences Larry Bernard Legg,1990 Comprehensive Laboratory Manual of Life Sciences Mamta Baunthiyal,Indu Ravi,Jyoti Saxena,2019-12-19 The present book Comprehensive Laboratory Manual of Life Science deals with practical trends in modern biological sciences It furnishes protocols on recent advances in biotechnological methods and aims to cover three most important aspects of this interdisciplinary stream such as Microbiology Biochemistry and Molecular biology The book contains four sections 1 Introduction emphasizes on good laboratory practices and etiquettes for beginners the do s and don ts of working in a laboratory concepts and terminology etc 2 Instruments Principle and Precautions explores commonly used equipments employed in different experiments 3 Experiments is further divided into three parts Microbiology with more than 70 experiments Biochemistry with 62 and Molecular Biology having around 32 detailed protocols accorded to make the readers proficient in the paramount disciplines of Bio Sciences and Biotechnology 4 Appendix at the end a rather comprehensive section that concludes the book This book is designed to meet the practical requirements of undergraduate and post graduate students of Life Science Biotechnology Microbiology Biochemistry and Biochemical Engineering by providing worked out solution to the most commonly practiced experiments prescribed by majority of Indian Universities The latest technological developments in the book will be appealing to the researchers and scientists *The Publishers' Trade List Annual* ,1973 **Selected Water Resources Abstracts** ,1981 **Current Catalog** National Library of Medicine (U.S.),1967 Includes subject section name section and 1968 1970 technical reports **National Library of Medicine Current Catalog** National Library of Medicine (U.S.),1967 First multi year cumulation covers six years 1965 70 Nuclear Science Abstracts ,1970 **The United States Government Manual** ,2003 **The United States Government Manual** United States. Office of the Federal Register,2000 *The United States Government Manual* Estados Unidos. Office of the Federal Register,National Archives & Records Administrati,1999 The Manual provides comprehensive information on a large number of U S government agencies Along with entries on the agencies of the executive judicial legislative branches of the government users will also find information on quasi official agencies international organizations in which the U S participates other boards commissions committees The Declaration of Independence the Constitution of the United States are also included This laminated edition features a sturdy cover extra strong bindings heavy acid free paper Recommended in ALA s Guide to Reference Books Walford s Guide to Reference Material

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