

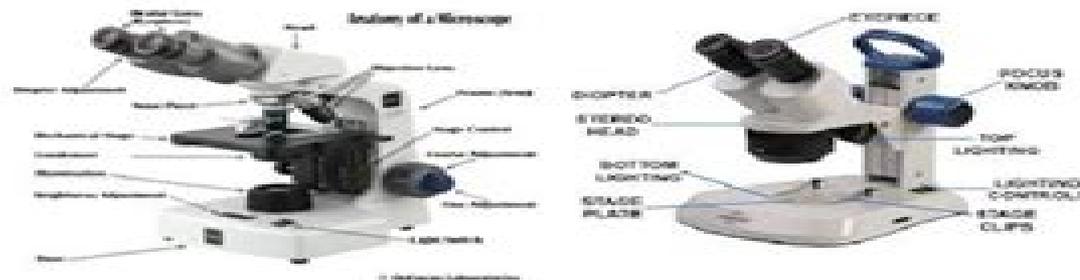
## BIO 108 Lab Exam Review

### 1. Define aseptic technique. How do you prepare an aseptic station and maintain aseptic technique?

Aseptic technique refers to a set of routine procedures done to prevent sterile solutions and cultures from becoming contaminated by unwanted microorganisms in the laboratory.

- decontaminate your lab bench
- safely organize your workspace
- properly adjust your Bunsen burner
- properly use an incinerator
- sterilize your inoculating tools
- aseptically transfer organisms from broth/plate cultures using procedures
- handle biohazard spills and dispose of biohazard materials
- do not put your head right over the things you are working on

### 2. Identify the parts of a compound and dissection microscope.



### 3. How do you calculate total magnification?

Ocular power x object power. Ocular power is 10x.

### 4. How do you calculate the actual size of an object? How do you complete the magnification of a drawing?

Actual size  
 (7 mm diameter) x (100x magnification) = 0.07 mm (0.07 mm x 1000 μm/mm) = 70 μm  
 Actual size  
 (2 mm x 50 μm) x (100x magnification) = 0.2 mm (0.2 mm x 1000 μm/mm) = 200 μm  
 Magnification  
 Magnification = (100x) x (100x) = 10,000x  
 Magnification of object  
 Size of drawing = 10 mm = 10,000 μm  
 Size of object = 1,000 μm



### 5. How do you find the resolution of each objective lens?

Objective Lens Magnification	Ocular Lens Magnification	Total magnification	Field of Diameter	Numerical Aperture (N.A.) <i>Found on objective lens</i>	Resolution (R)	Calibration Factor Ocular Micrometer Units (μm/ division)
4X	10x	40X	3.6mm	0.10	3.6 μm	1 unit = 30.6 μm
10x	10x	100X	1.8mm	0.25	1.0 μm	1 unit = 10.2 μm
40x	10x	400X	0.47mm	0.65	0.4 μm	1 unit = 2.5 μm
100x	10x	1000X	0.18mm	1.25	0.2 μm	1 unit = 1.0 μm

$$R = \frac{0.61 \lambda}{N.A.} \quad \text{Where } \lambda = \text{wavelength of light (500 nm or } 0.5 \mu\text{m)}$$

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Introductory Biology, Bio 108, 2014      **College Science Improvement Programs; COSIP A & B Report** National Science Foundation (U.S.). Office of Experimental Programs, 1974      **Pure and Applied Science Books, 1876-1982**, 1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings Covers all disciplines of science and technology e g engineering agriculture and domestic arts Also contains at least 5000 titles published before 1876 Has many applications in libraries information centers and other organizations concerned with scientific and technological literature Subject index contains main listing of entries Each entry gives cataloging as prepared by the Library of Congress Author title indexes      *Catalogue* Capital University, 1953      **Introduction Biology Lab Manual 2B Lab Manual University of Davis** University Of U. C. Davis Lab manual, 2025-01-17      *Index-catalogue of the Library of the Surgeon-general's Office, United States Army* National Library of Medicine (U.S.), 1937      *BioSupplyNet Source Book*, 1998      **Index-catalogue of the Library of the Surgeon-General's Office, United States Army (Army Medical Library)** National Library of Medicine (U.S.), Army Medical Library (U.S.), 1937      **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff, R R Bowker Publishing, 1996-09      *Index-catalogue of the Library of the Surgeon General's Office, United States Army (Army Medical Library)*. Army Medical Library (U.S.), National Library of Medicine (U.S.), Library of the Surgeon-General's Office (U.S.), 1937 Collection of incunabula and early medical prints in the library of the Surgeon general s office U S Army Ser 3 v 10 p 1415 1436      The Journal of Cell Biology, 1996 No 2 pt 2 of November issue each year from v 19 47 1963 70 and v 55 1972 contain the Abstracts of papers presented at the annual meeting of the American Society for Cell Biology 3d 10th 1963 70 and 12th 1972      American Scientist, 1945      **Nuclear Science Abstracts**, 1962      American Scientist, the Sigma Xi Quarterly, 1945      **The Expression of Extracellular Matrix-degrading Metalloproteinases is Regulated by Cell-extracellular Matrix Interactions** Patrice Tremble, 1993      Biology, 1999      Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences (U.S.), 1998-04      **Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26**, 1926      **Invertebrate Zoology** Edward E. Ruppert, Richard S. Fox, Robert D. Barnes, 2004 This thorough revision of Invertebrate Zoology provides a survey by groups emphasizing adaptive morphology and physiology while covering anatomical ground plans and basic developmental patterns The most modern evolutionary research is included      *Forthcoming Books* Rose Arny, 1999

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