

BIOLOGY EOC STUDY GUIDE

Unit 1: Scientific Inquiry and Biological Principles

- 1-Differentiate between dependent and independent variables. Which goes on the X axis and the Y axis? Give an example of each variable.
- 2-Define control group and experimental group. Why is a control critical for scientific inquiry?
- 3-Differentiate between qualitative and quantitative data.
- 4-List the appropriate steps of the scientific method.
- 5-Differentiate between light microscopes and electron microscopes.
- 6-Define theory and scientific law.
- 7-What is the total magnification if the eyepiece is 10x and the low power objective is 4?
What is the total magnification if the eyepiece is 10x and medium power objective is 10?
What is the total magnification if the eyepiece is 10x and high power objective is 45?
- 8-If you move the slide to the left on the stage, in what direction does it appear to move as you look through the eyepiece?
- 9-Describe the function of these microscope parts: eyepiece, diaphragm, fine adjustment, coarse adjustment, high power objective, low power objective, stage, stage clips.
- 10-Discuss the characteristics of all living organisms.

Unit 2: Molecular Biology

- 11-Discuss atomic structure and function.
- 12-Differentiate between ionic and covalent bonds.
- 13-What is polarity and why is it important to all living things?
- 14-Differentiate between adhesion and cohesion.
- 15-What are the basic components of the pH scale and give examples of substances that fall into each category.
- 16-What is a buffer? Why is it significant in living organisms?
- 17-What are the subunits and functions of the four main types of organic chemicals (carbohydrates, lipids, nucleic acids, proteins)?
- 18-Distinguish between mono-, di- and polysaccharides.
- 19-How are organic molecules different from inorganic molecules such as H₂O, O₂, CO₂, and NH₃?
- 20-Define steroids and hemoglobin and discuss their role in the body.
- 21-Distinguish between exothermic (exergonic) and endothermic (endergonic) reactions.
- 22-What is ATP? How is it used in the cell? How is it stored in the cell?
- 23-Define activation energy and explain its importance in enzymatic reactions.
- 24-What is the function of enzymes? What type of biological molecule are enzymes? What are the subunits? Why are they considered catalysts?
- 25-Explain the Induced Fit Theory/Lock and Key Model of enzymes. Draw a diagram and label it.
- 26-How do pH and extreme heat affect enzymes? What is the scientific term associated with this effect?

Unit 3: Cells and Living Systems

- 27-List and explain the parts of the cell theory.
- 28-What limits a cell's size?
- 29-What is the difference between prokaryotic and eukaryotic cells?
- 30-What are the basic structures and functions of the following cell organelles: nucleus, plasma membrane, cell wall, mitochondria, vacuoles, chloroplasts and ribosomes.
- 31-Discuss the role of receptor proteins on the surface of cells.
- 32-Differentiate between plant cells and animal cells.

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Climate Change 2022 - Impacts, Adaptation and Vulnerability Intergovernmental Panel on Climate Change (IPCC), 2023-06-22 The Working Group II contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provides a comprehensive assessment of the scientific literature relevant to climate change impacts adaptation and vulnerability The report recognizes the interactions of climate ecosystems and biodiversity and human societies and integrates across the natural ecological social and economic sciences It emphasizes how efforts in adaptation and in reducing greenhouse gas emissions can come together in a process called climate resilient development which enables a liveable future for biodiversity and humankind The IPCC is the leading body for assessing climate change science IPCC reports are produced in comprehensive objective and transparent ways ensuring they reflect the full range of views in the scientific literature Novel

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Modern Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006-01-01

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