

Honors Biology
Semester 1 Final Exam Study Guide

The Introduction to Biology

The scientific method

Homeostasis

Purpose and Hypothesis

Theory

The Chemistry of Life

Matter, elements, atoms, compounds

Properties of water: adhesion, cohesion, hydrogen bonds

Location and charge of protons, neutrons, electrons

Atomic number vs. Mass number

Isotopes

Differences in the types of bonds: covalent, ionic, hydrogen

Difference between exothermic and endothermic reactions

Solution, solute and solvent

What is an acid, base, salt? And how is a pH scale used?

Monomers and Polymers

Carbohydrates

lipids: fats, phospholipids, steroids and waxes

amino acids and proteins

Enzymes and Activation energy and Catalyst and Substrate and active site

Nucleic acids- RNA, DNA

Cell Structure and Function

Parts of a compound microscope

How to use a microscope

Magnification, resolution

Three principles of the cell theory

Parts of the cell, their function and location

Differences between prokaryotes and eukaryotes

Differences between an animal and plant cell

Nature of the cell membrane, phospholipid bilayer, semi-permeable membrane and fluid mosaic model

Passive transport, osmosis, diffusion and facilitated diffusion and concentration gradient

Hypertonic, hypotonic and isotonic solutions

Active transport- Endocytosis, exocytosis

Ion channels

Cells and Energy

Photosynthesis

Getting energy from ATP

Photosynthesis reaction equation

Chloroplast, chlorophyll, pigments

Light reactions, dark reactions

Calvin Cycle

Electron transport chain

ATP synthase

Glycolysis

Cellular respiration, ATP- how much formed at each step

Respiration reaction equation

Anaerobic and aerobic respiration

Fermentation

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Table of Contents 2nd Semester Biology Final Exam Review Packet

1. Understanding the eBook 2nd Semester Biology Final Exam Review Packet
 - The Rise of Digital Reading 2nd Semester Biology Final Exam Review Packet
 - Advantages of eBooks Over Traditional Books
2. Identifying 2nd Semester Biology Final Exam Review Packet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a 2nd Semester Biology Final Exam Review Packet
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2nd Semester Biology Final Exam Review Packet
 - Personalized Recommendations
 - 2nd Semester Biology Final Exam Review Packet User Reviews and Ratings

- 2nd Semester Biology Final Exam Review Packet and Bestseller Lists
- 5. Accessing 2nd Semester Biology Final Exam Review Packet Free and Paid eBooks
 - 2nd Semester Biology Final Exam Review Packet Public Domain eBooks
 - 2nd Semester Biology Final Exam Review Packet eBook Subscription Services
 - 2nd Semester Biology Final Exam Review Packet Budget-Friendly Options
- 6. Navigating 2nd Semester Biology Final Exam Review Packet eBook Formats
 - ePub, PDF, MOBI, and More
 - 2nd Semester Biology Final Exam Review Packet Compatibility with Devices
 - 2nd Semester Biology Final Exam Review Packet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2nd Semester Biology Final Exam Review Packet
 - Highlighting and Note-Taking 2nd Semester Biology Final Exam Review Packet
 - Interactive Elements 2nd Semester Biology Final Exam Review Packet
- 8. Staying Engaged with 2nd Semester Biology Final Exam Review Packet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2nd Semester Biology Final Exam Review Packet
- 9. Balancing eBooks and Physical Books 2nd Semester Biology Final Exam Review Packet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2nd Semester Biology Final Exam Review Packet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 2nd Semester Biology Final Exam Review Packet
 - Setting Reading Goals 2nd Semester Biology Final Exam Review Packet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2nd Semester Biology Final Exam Review Packet
 - Fact-Checking eBook Content of 2nd Semester Biology Final Exam Review Packet
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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