TOPIC 1: CELL BIOLOGY

1.1. Introduction to cells

Cell theory:

- o All living things are composed of cells
- o. The cell is the smallest unit of life
- Cells only arise from pre-existing cells

Atypical enamples

- Stringel muscle -> (chaffenge: one nucleus) long and multi-nucleated
- Figured by these → (challenge: single unit) very large, multi-nucleated, continuous cytoplasm
- Chart sines -> (chaffenge; simple and small) gigantic, complex form

Functions of life (MR H GREN)

- Mutabilities all the chemical reactions in the cell which are responsible for all the actions of organisms (e.g. respiration)
- 2. However living things can respond to changes in the environmental conditions.
- 3. Homortonic the maintenance and regulation of internal cell conditions (e.g., water and pHt)
- 4. (limit) living things can grow or change in size/shape.
- 5. Harroduction living things reproduce offspring
 - Sexual reproduction (two parents)
 - Ascrust reproduction (one perent)
- 6. _____ the removal of metabolic waste
- Number feeding by either the synthesis of organic molecules (e.g. photosynthesis) or the absorption of organic matter

Surface Area : Volume

Planta incribranc is missonsible for import/export in the cell.

SMALLER THE CELL:

- Hetter to lose heat so that ensymes do not denature
- Greater SA: Vol ratio for diffusion -> mill more officient
- Diffusion pathway is shorter -> cell more efficient

GREATER THE CHLL:

- Decreased SA: Vol ratio → cell conserve better heat.
- Example 1; Intentine folded covered of villi and microvilli → create larger SA:Vel → greater rate of absorption Example 2; Lungs made of alveoli → create larger SA:Vel

Magnification Formula



Imm = 1000µm (micrometres)
Imm = 1,000,000nm (nanometres)

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E Durkheim

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Table of Contents Sl Ib Biology 2paper 2

- 1. Understanding the eBook Sl Ib Biology 2paper 2
 - The Rise of Digital Reading Sl Ib Biology 2paper 2
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Sl Ib Biology 2paper 2
 - 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 an Sl Ib Biology 2paper 2
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Sl Ib Biology 2paper 2
 - Personalized Recommendations
 - Sl Ib Biology 2paper 2 User Reviews and Ratings

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

- 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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