

3.1 Movement of Substance Across the Plasma Membrane

Structure of the Plasma Membrane

1. S.J. Singer and G. L. Nicolson introduced the fluid-mosaic model of plasma membrane.
 - Proteins are dispersed throughout the phospholipid bilayer.
 - Proteins float about in phospholipid bilayer to form a mosaic pattern that always changes.
 - Plasma membrane present in a flexible, non-static and dynamic state.
2. Plasma membrane composed mainly of phospholipid bilayer and proteins.

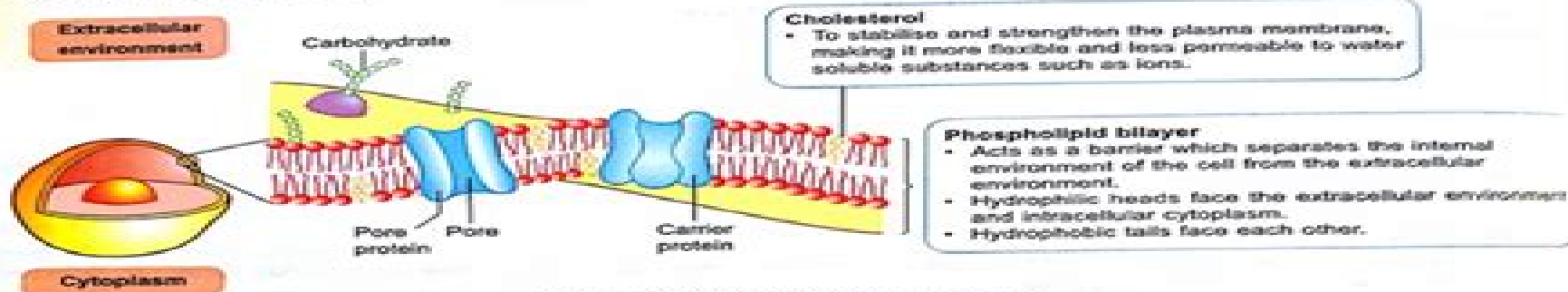


Diagram 3.1 Structure of plasma membrane

Characteristics of Plasma Membrane

1. Selectively permeable
 - It only allows certain substances to pass through but not others
2. Dynamic or flexible

Table 3.1 Components of plasma membrane

Components of plasma membrane	Phospholipid bilayer	Transport proteins	
		Carrier protein	Pore protein
Characteristics	A triglyceride	A protein	A protein
Substances that move across the plasma membrane	<ul style="list-style-type: none"> • Lipid soluble molecules • Non-polar molecules • Small molecules 	<ul style="list-style-type: none"> • Large molecules • Water soluble molecules 	<ul style="list-style-type: none"> • Small molecules • Water soluble molecules or polar molecules

Functions of plasma membrane

1. To control the substances that are entering or leaving the cell
2. To maintain a constant internal environment (homeostasis) of the cell
3. For gaseous exchange
4. To transport nutrients into the cell
5. To excrete waste products out from the cell

Express Tips



Form 4 Biology Chapter 3 Notes

Linda Deer Richardson



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Alexander, 1964 1 Introduction The Need for Rationality Part One 2 Goodness of Fit 3 The Source of Good Fit 4 The Unselfconscious Process 5 The Self conscious Process Part Two 6 The Program 7 The Realization of the Program 8 Definitions 9 Solution Epilogue Appendix 1 A Worked Example Appendix 2 Mathematical Treatment of Decomposition Notes

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Table of Contents Form 4 Biology Chapter 3 Notes

1. Understanding the eBook Form 4 Biology Chapter 3 Notes
 - The Rise of Digital Reading Form 4 Biology Chapter 3 Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Form 4 Biology Chapter 3 Notes
 - 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 Form 4 Biology Chapter 3 Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Form 4 Biology Chapter 3 Notes
 - Personalized Recommendations
 - Form 4 Biology Chapter 3 Notes User Reviews and Ratings
 - Form 4 Biology Chapter 3 Notes and Bestseller Lists
5. Accessing Form 4 Biology Chapter 3 Notes Free and Paid eBooks
 - Form 4 Biology Chapter 3 Notes Public Domain eBooks
 - Form 4 Biology Chapter 3 Notes eBook Subscription Services
 - Form 4 Biology Chapter 3 Notes Budget-Friendly Options
6. Navigating Form 4 Biology Chapter 3 Notes eBook Formats

- ePub, PDF, MOBI, and More
- Form 4 Biology Chapter 3 Notes Compatibility with Devices
- Form 4 Biology Chapter 3 Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Form 4 Biology Chapter 3 Notes
 - Highlighting and Note-Taking Form 4 Biology Chapter 3 Notes
 - Interactive Elements Form 4 Biology Chapter 3 Notes
- 8. Staying Engaged with Form 4 Biology Chapter 3 Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Form 4 Biology Chapter 3 Notes
- 9. Balancing eBooks and Physical Books Form 4 Biology Chapter 3 Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Form 4 Biology Chapter 3 Notes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Form 4 Biology Chapter 3 Notes
 - Setting Reading Goals Form 4 Biology Chapter 3 Notes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Form 4 Biology Chapter 3 Notes
 - Fact-Checking eBook Content of Form 4 Biology Chapter 3 Notes
 - 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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