

Subjective Questions

Section A

1. (a) Explain how amino acid is transported across plasma membrane into cell. [2 marks]
 - (b) Concentration of iodine in *Nitella* sp. is higher than the environment. However, the plant still absorbs iodine from the environment. Explain how this process happen. [3 marks]
2. Figure 2 show structure of plasma membrane based on fluid mosaic model.

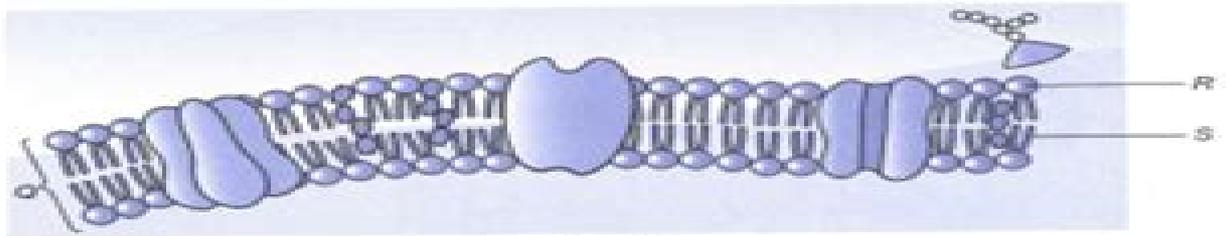


Figure 2

- (a) (i) Name structures Q, R and S. [3 marks]
- (ii) State the characteristics of structure Q. [2 marks]
- (iii) Name the process in which substance moves freely across the plasma membrane through Q and give an example of the substance. [2 marks]

3. Plasma membrane is important in controlling exchange of substances such as nutrients and water in and out of cell. Figure 3.1 shows components of plasma membrane.



Figure 3.1

- (a) (i) Name P and Q. [2 marks]
 - (ii) State the functions of P and Q. [2 marks]
 - (iii) Water molecules diffuse through P. Justify your answer. [1 mark]
- (b) State two differences between processes that occur via Q and R. [1 mark]
- (c) Figure 3.2 shows an own method in preparing crispy potatoes.



Figure 3.2

In your opinion, explain which step is important to produce a crispy potato chip. [3 marks]

Biology Form 4 Chapter 3 Exercise Tsgweb

Robert R. Redfield



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Table of Contents Biology Form 4 Chapter 3 Exercise Tsgweb

1. Understanding the eBook Biology Form 4 Chapter 3 Exercise Tsgweb
 - The Rise of Digital Reading Biology Form 4 Chapter 3 Exercise Tsgweb
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Form 4 Chapter 3 Exercise Tsgweb
 - 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 Biology Form 4 Chapter 3 Exercise Tsgweb
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Form 4 Chapter 3 Exercise Tsgweb
 - Personalized Recommendations
 - Biology Form 4 Chapter 3 Exercise Tsgweb User Reviews and Ratings
 - Biology Form 4 Chapter 3 Exercise Tsgweb and Bestseller Lists

5. Accessing Biology Form 4 Chapter 3 Exercise Tsgweb Free and Paid eBooks
 - Biology Form 4 Chapter 3 Exercise Tsgweb Public Domain eBooks
 - Biology Form 4 Chapter 3 Exercise Tsgweb eBook Subscription Services
 - Biology Form 4 Chapter 3 Exercise Tsgweb Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
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 - Biology Form 4 Chapter 3 Exercise Tsgweb Enhanced eBook Features
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 - Highlighting and Note-Taking Biology Form 4 Chapter 3 Exercise Tsgweb
 - Interactive Elements Biology Form 4 Chapter 3 Exercise Tsgweb
8. Staying Engaged with Biology Form 4 Chapter 3 Exercise Tsgweb
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Form 4 Chapter 3 Exercise Tsgweb
9. Balancing eBooks and Physical Books Biology Form 4 Chapter 3 Exercise Tsgweb
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Form 4 Chapter 3 Exercise Tsgweb
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Biology Form 4 Chapter 3 Exercise Tsgweb
 - Setting Reading Goals Biology Form 4 Chapter 3 Exercise Tsgweb
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Biology Form 4 Chapter 3 Exercise Tsgweb
 - Fact-Checking eBook Content of Biology Form 4 Chapter 3 Exercise Tsgweb
 - 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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