

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

N Colangelo



Biology Form 4 Chapter:

Technology-Driven Business Innovation: Unleashing the Digital Advantage Rim El Khoury, 2024-08-08 In today's rapidly changing world technology plays a crucial role in shaping the business landscape. Advancements in artificial intelligence, blockchain, data analytics, and automation have revolutionized how organizations operate, compete, and achieve success. Understanding the profound impact of technology on business is vital for entrepreneurs, managers, policymakers, and academics alike. This book aims to provide a comprehensive understanding of the interplay between technology and business and its implications for future growth and innovation. This book aims to explore the connection between technology and business, highlighting its importance in driving transformative changes across various industries. We welcome scholars, researchers, and practitioners to share their expertise and insights in this exciting endeavor. This title captures the essence of exploring the dynamic relationship between technology and business, emphasizing the potential for innovation and growth. It conveys the idea of embracing the transformative power of technology within the business realm and the opportunities it presents for unleashing new ideas and strategies. By delving into various aspects such as emerging technologies, business strategies, innovation, and ethical considerations, it aims to provide a comprehensive understanding of the symbiotic relationship between technology and business. It offers insights into the integration of technology into decision-making processes, the transformative impact on different industries, and strategies for leveraging technology to drive organizational growth and sustainability. Furthermore, the book highlights real-world case studies, explores emerging trends, and discusses the ethical and social implications of technology adoption in the business context. It serves as a valuable resource for entrepreneurs, managers, policymakers, academics, and anyone interested in understanding and harnessing the potential of technology for business success. This book aims to be a valuable resource for individuals interested in the transformative power of technology in the business realm. By compiling a collection of insightful chapters, it will offer readers a diverse range of perspectives, frameworks, and case studies that shed light on the complexities and opportunities associated with technology-driven business environments.

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