



## Subjective Questions

### Section A

- Explain how amino acid is transported across plasma membrane into cell. [2 marks]
  - 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]
- Figure 2 show structure of plasma membrane based on fluid mosaic model.

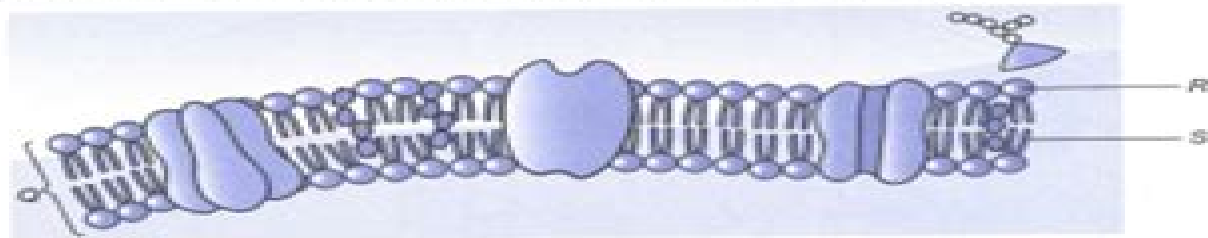


Figure 2

- Name structures Q, R and S. [3 marks]
  - State the characteristics of structure Q. [2 marks]
  - Name the process in which substance moves freely across the plasma membrane through Q and give an example of the substance. [2 marks]
- 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.
  - Name P and Q. [2 marks]
    - State the functions of P and Q. [2 marks]
    - Water molecules diffuse through P. Justify your answer. [1 mark]
  - State two differences between processes that occur via Q and R. [1 mark]
  - Figure 3.2 shows an own method in preparing crispy potatoes.

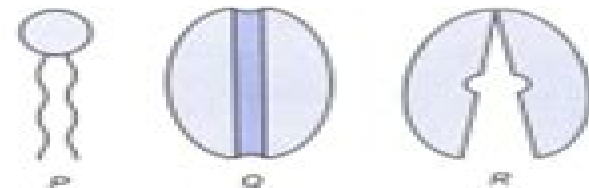


Figure 3.1



Figure 3.2

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

[3 marks]

# Chapter 3 Biology Form 4

**Jacob Richard Schramm**



### Chapter 3 Biology Form 4:

**Microbial Fuel Cell (MFC) Applications for Sludge Valorization** Muaz Mohd Zaini Makhtar, Hafiza Shukor, Abu Zahrim Yaser, 2023-06-08 This book highlights current efforts and research in Malaysia on Microbial Fuel Cell MFC approach as a core technique for sludge treatment and energy recovery It also includes health and socioeconomic perspectives used in this approach The book begins with an overview of sludge in waste treatment plants and the efficient generation of renewable energy through dewatered sludge bioconversion via MFC It presents the use of Electrogenic Bacteria EB for accelerating the hydrolysis treatment of sludge and the determination of metabolites produced in the process The book highlights new achievements in the purification of sludge through rubber band technology and further treatment It discusses the recovery of beneficial biodegradable polymer compounds that are added value for the plastic industry and presents safety issues of sludge on human health Further it presents a case study on the MFC project for STEM Science Technology Engineering and Mathematics education and includes the economic perspective of innovation in energy The book ends with various ways forward toward improving renewable energy production and clean waste treatment Schaum's Outline of Molecular and Cell Biology William D. Stansfield, Jaime S. Colome, Raul J. Cano, 1996-09-22 Confusing Textbooks Missed Lectures Not Enough Time Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum s highlights all the important facts you need to know Use Schaum s to shorten your study time and get your best test scores Schaum s Outlines Problem Solved **Memoirs of the Wistar Institute of Anatomy and Biology** ,1915 **Annual Reports in Medicinal Chemistry** ,1971-10-11 Annual Reports in Medicinal Chemistry *Next Generation Sequencing Technologies and Challenges in Sequence Assembly* Sara El-Metwally, Osama M. Ouda, Mohamed Helmy, 2014-04-19 The introduction of Next Generation Sequencing NGS technologies resulted in a major transformation in the way scientists extract genetic information from biological systems revealing limitless insight about the genome transcriptome and epigenome of any species However with NGS came its own challenges that require continuous development in the sequencing technologies and bioinformatics analysis of the resultant raw data and assembly of the full length genome and transcriptome Such developments lead to outstanding improvements of the performance and coverage of sequencing and improved quality for the assembled sequences nevertheless challenges such as sequencing errors expensive processing and memory usage for assembly and sequencer specific errors remains major challenges in the field This book aims to provide brief overviews the NGS field with

special focus on the challenges facing the NGS field including information on different experimental platforms assembly algorithms and software tools assembly error correction approaches and the correlated challenges Biology and Biological Control of Purple Loosestrife ,2004 **Immunobiology** Charles Janeway,1999 **Pamphlets on Biology** ,1885 *Journal of Biological Education* ,1991 **Aspects of Education** ,1968 The Wonders of Life Ernst Haeckel,1904 The publication of the present work on The Wonders of Life has been occasioned by the success of The Riddle of the Universe which was written five years prior to this volume Within a few months of the issue of this study of the monistic philosophy in the autumn of 1899 ten thousand copies were sold The clear opposition of the author s monistic philosophy based as it was on the most advanced and sound scientific knowledge to the conventional ideas and to an outworn revelation led to the publication of a vast number of criticisms and attacks The present work on the wonders of life is as the title indicates a supplementary volume to The Riddle of the Universe While the latter undertook to make a comprehensive survey of the general questions of science as cosmological problems in the light of the monistic philosophy the present volume is confined to the realm of organic science or the science of life It seeks to deal connectedly with the general problems of biology in strict accord with the monistic and mechanical principles which had been laid down by the author in 1866 in his work titled General Morphology In the latter publication special stress was placed on the universality of the law of substance and the substantial unity of nature which had been further treated in the second and fourteenth chapters of The Riddle of the Universe The arrangement of the vast material for this study of the wonders of life was modeled on that of the Riddle Retained in the present volume is the division into larger and smaller sections and the synopses of the various chapters Thus the whole biological content falls into four sections and twenty chapters Preface PsycINFO Database Record c 2010 APA all rights reserved *School Architecture* John Joseph Donovan,1921 The Coiled Spring Ethan Bier,2000 A concise readable account of the principles underlying embryonic and appendage development in animals and plants illustrated with colorful artwork and interviews with prominent investigators Highly recommended for use in undergraduate and graduate courses **The Outline of Knowledge: The history of the world** James Albert Richards,1924 Biological Abstracts Jacob Richard Schramm,1929 **Understanding Biology** Burton S. Guttman,Johns W. Hopkins,1983 System of Positive Polity: Theory of the future of man, with an appendix consisting of Early essays on social philosophy Auguste Comte,1877 The Outline of Knowledge: The history of the world, by A. D. Innes. The romance of money, by R. M. Knerr. The reader's guide James Albert Richards,1924 **Psycho-bio-physiology** Willard Carver,1920 *A Manual of the Sub-kingdom Protozoa* Joseph Reay Greene,1871

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