

Instructions

Question 1

1.1 Different solutes are used as possible answers for the following questions. Choose the correct answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.10) on the PCL2016P0002a.g. 1.1.1 A.

1.1.1 Substrate and free energy rate are transported for energy

- A. Active transport
- B. Facilitated diffusion
- C. Diffusion
- D. Osmosis

(2)

1.1.2 Transport of water molecules is most from a high concentration to a low concentration

- A. Osmosis
- B. Water potential
- C. Diffusion
- D. Active transport

(2)

1.1.3 Comparison of cell membranes: structure and function

- A. Cell wall
- B. Jelly like gel
- C. Cell membrane
- D. Phospholipid

(2)

1.1.4 Transport of substances across the cell membrane and the cytoplasm

- A. Free
- B. Phospholipid
- C. Cell wall
- D. Double membrane

(2)

1.1.5 The function of the endoplasmic reticulum is

- A. Transport of materials in the cytoplasm, involved in chemical reactions and storage of lipids

B. Transport of materials in the cytoplasm, involved in chemical reactions and storage of lipids

C. Transport of materials in the cytoplasm, involved in chemical reactions and storage of lipids

D. Transport of materials in the cell membrane, involved in chemical reactions and storage of lipids

(2)

1.1.6 Movement across of

- A. Protein and DNA
- B. Protein and RNA
- C. Glucose and RNA
- D. Glucose and DNA

(2)

1.1.7 How many big units is hydrophobic units across of?

- A. One
- B. Three
- C. Four
- D. Two

(2)

1.1.8 Diffusion does take in

- A. Non living systems
- B. Living systems
- C. Living and non living systems
- D. None of the above

(2)

1.1.9 The endoplasmic reticulum of the following cells

- A. Inner membrane, matrix and outer membrane
- B. Cytoplasm, matrix and double membrane
- C. Inner membrane, cytoplasm, matrix, double membrane and outer membrane
- D. Inner membrane, cytoplasm, matrix, double membrane

(2)

1.1.10 Choose the other that does NOT match the function of the cytoplasm:

- A. Store shape to the cell
- B. Store the water soluble substances
- C. Contains genetic information
- D. Storage site for small molecules

(2)

1.2 Give the correct terminology for each of the following descriptions:

Life Sciences May Controlled Test 2015

Curtis D. Klaassen



Life Sciences May Controlled Test 2015:

Epidemiology and Control of Notifiable Animal Diseases Julio Álvarez,Douwe Bakker,Javier Bezos,2019-05-09

Surveillance early detection control and eradication of notifiable animal diseases is of critical importance for countries in order to maintain or improve their animal health status This requires the collaboration of all stakeholders involved including animal health authorities livestock industry and veterinary research institutions among others Prevention control and eradication programs must take into account the characteristics of the host including potential reservoirs the pathogen transmissibility virulence and the environment temperature animal density but also the socio economic context in which they have to be implemented highly influenced by funding availability while at the same time guaranteeing compliance with international trade regulations This has led to the adoption of a wide range of approaches to address the risk posed by specific pathogens in different countries and at the same time similar strategies have yielded very different results in different regions This Research Topic includes a variety of manuscripts focusing on different aspects of surveillance control and eradication of diseases of critical importance for livestock including cattle swine and wildlife in an attempt to provide an overview of the current situation in different countries

Advancing the development and implementation of regional, national tuberculosis control programs in livestock in africa, asia, and latin america Douwe Bakker,Joram Josephat Buza,Julio Alvarez,Vivek Kapur,2023-05-11

Science Fictions Stuart Ritchie,2020-07-21 An insider s view of science reveals why many scientific results cannot be relied upon and how the system can be reformed Science is how we understand the world Yet failures in peer review and mistakes in statistics have rendered a shocking number of scientific studies useless or worse badly misleading Such errors have distorted our knowledge in fields as wide ranging as medicine physics nutrition education genetics economics and the search for extraterrestrial life As Science Fictions makes clear the current system of research funding and publication not only fails to safeguard us from blunders but actively encourages bad science with sometimes deadly consequences Stuart Ritchie s own work challenging an infamous psychology experiment helped spark what is now widely known as the replication crisis the realization that supposed scientific truths are often just plain wrong Now he reveals the very human biases misunderstandings and deceptions that undermine the scientific endeavor from contamination in science labs to the secret vaults of failed studies that nobody gets to see from outright cheating with fake data to the more common but still ruinous temptation to exaggerate mediocre results for a shot at scientific fame Yet Science Fictions is far from a counsel of despair Rather it s a defense of the scientific method against the pressures and perverse incentives that lead scientists to bend the rules By illustrating the many ways that scientists go wrong Ritchie gives us the knowledge we need to spot dubious research and points the way to reforms that could make science trustworthy once again

Science 5-11 Kendra McMahon,Alan Howe,Chris Collier,Sarah Earle,Dan Davies,Darren McKay,Kerry-Anne Barber,Lisa Howarth,2024-11-29 This fully updated fourth edition of the bestselling textbook Science 5 11 provides a comprehensive

introduction to current research and professional practice for teaching science in the primary school Chapters are organised into five sections first introducing theory and practice then providing specific guidance on teaching topics in biology chemistry and physics and finally discussing supporting science across the whole school Updates to the new edition include Responding to recent changes in the Initial Teacher Education framework discussion about cognitive science is integrated more fully throughout Supporting all children s engagement in science by suggesting inclusive and creative ways of building and consolidating knowledge including making connections between topics and with the wider world New discussion on planning to support pupil progression in scientific knowledge throughout their time at primary school building on Early Years and preparing for transition to secondary school Presenting current research and outlining guidance on best practice Science 5 11 provides a guide to the subject knowledge curriculum requirements and pedagogical techniques to successfully teach science within the primary school

Modeling Disease Spread and Control Tariq Halasa,Salome Dürr,2018-01-18

Mathematical models are useful tools to understand the epidemiology and agent host interaction of diseases They are developed and applied since over a century but with increasing computer capacity they become increasingly prominent as part of evidence based decision making Mathematical models are frequently used to construct preparedness and contingency plans for highly contagious diseases such as foot and mouth disease This allows proposing effective strategies to control the spread of the disease in case of an incursion and avails useful tools to support decision making during an outbreak They are also used to monitor prevent and control endemic diseases within populations or farms In addition mathematical models improve our understanding of the contact structure between farms pointing out risky elements in the contact network for disease introduction or further spread within the population This Research Topic presents valuable studies presenting different aspects and implementations of mathematical modeling for disease spread and control in the veterinary field The areas covered include model construction network analysis tools for decision makers and costeffective control of endemic diseases

Biotechnology Operations John M. Centanni,Michael J. Roy,2016-09-19 This book describes seven areas in the field of biotechnology operations as practiced by biopharmaceutical firms and nonprofit institutions Revisions focus upon changes that have occurred in several areas over the past six years with emphasis on regulatory biomanufacturing clinical and technical information along with processes and guidelines that have added to the discipline Examples are increased for new technical fields such as cell and tissue engineering Further illustrations or figures are added to each chapter to emphasize particular points

Freshney's Culture of Animal Cells Amanda Capes-Davis,R. Ian Freshney,2021-02-17
FRESHNEY S CULTURE OF ANIMAL CELLS THE NEW EDITION OF THE LEADING TEXT ON THE BASIC METHODOLOGY OF CELL CULTURE FULLY UPDATED TO REFLECT NEW APPLICATIONS INCLUDING IPSCS CRISPR AND ORGAN ON CHIP TECHNOLOGIES Freshney s Culture of Animal Cells is the most comprehensive and up to date resource on the principles techniques equipment and applications in the field of cell and tissue culture Explaining both how to do tissue

culture and why a technique is done in a particular way this classic text covers the biology of cultured cells how to select media and substrates regulatory requirements laboratory protocols aseptic technique experimental manipulation of animal cells and much more The eighth edition contains extensively revised material that reflects the latest techniques and emerging applications in cell culture such as the use of CRISPR Cas9 for gene editing and the adoption of chemically defined conditions for stem cell culture A brand new chapter examines the origin and evolution of cell lines joined by a dedicated chapter on irreproducible research its causes and the importance of reproducibility and good cell culture practice Throughout the book updated chapters and protocols cover topics including live cell imaging 3D culture scale up and automation microfluidics high throughput screening and toxicity testing This landmark text Provides comprehensive single volume coverage of basic skills and protocols specialized techniques and applications and new and emerging developments in the field Covers every essential area of animal cell culture including lab design disaster and contingency planning safety bioethics media preparation primary culture mycoplasma and authentication testing cell line characterization and cryopreservation training and troubleshooting Features a wealth of new content including protocols for gene delivery iPSC generation and culture and tumor spheroid formation Includes an updated and expanded companion website containing figures artwork and supplementary protocols to download and print The eighth edition of Freshney's Culture of Animal Cells is an indispensable volume for anyone involved in the field including undergraduate and graduate students clinical and biopharmaceutical researchers bioengineers academic research scientists and managers technicians and trainees working in cell biology molecular biology and genetics laboratories *Journal of Nuclear Science and Technology*, 2007 Includes English abstracts from Japanese articles in Nihon Genshiryoku Gakkai Shi Journal of the Atomic Energy Society of Japan

Insects at the Center of Interactions with Other Organisms Patrizia Falabella, Michel Cusson, Anne-Nathalie Volkoff, 2020-08-14 A Figure from Chami Kim Jo Jean Luc Gatti and Maryl ne Poiri 2019 *Drosophila* Cellular Immunity Against Parasitoid Wasps A Complex and Time Dependent Process *Front Physiol* 10 603 doi 10 3389 fphys 2019 00603 B Figure from Giuseppe Bari Andrea Scala Vita Garzone Rosanna Salvia Cem Yalcin Pasqua Vernile Antonella Maria Aresta Osvaldo Facini Rita Baraldi Sabino A Bufo Heiko Vogel Enrico de Lillo Francesca Rapparini and Patrizia Falabella 2019 Chemical Ecology of *Capnodis tenebrionis* L Coleoptera Buprestidae Behavioral and Biochemical Strategies for Intraspecific and Host Interactions *Front Physiol* 10 604 doi 10 3389 fphys 2019 00604 C Figure from Rosanna Salvia Annalisa Grimaldi Rossana Girardello Carmen Scieuzo Andrea Scala Sabino A Bufo Heiko Vogel and Patrizia Falabella 2019 *Aphidius ervi* Teratocytes Release Enolase and Fatty Acid Binding Protein Through Exosomal Vesicles *Front Physiol* 10 715 doi 10 3389 fphys 2019 00715 D Figure from Mariangela Coppola Gianfranco Diretto Maria Cristina Digilio Sheridan Lois Woo Giovanni Giuliano Donata Molisso Francesco Pennacchio Matteo Lorito and Rosa Rao 2019 Transcriptome and Metabolome Reprogramming in Tomato Plants by *Trichoderma harzianum* strain T22 Primes and Enhances Defense Responses Against Aphids *Front Physiol* 10 745

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Life Sciences and Space Research XXV(4) COSPAR. Plenary Meeting,1994 These proceedings contain 56 papers that cover such topics as extraterrestrial organic chemistry and the origins of life life on Mars planetary protection for Mars missions and chemical evolution on Titan Scientific American ,1875 Monthly magazine devoted to topics of general scientific interest *Government Reports Announcements & Index* ,1992-12 **JPRS Report** ,1995 **The College Handbook** College Entrance Examination Board,1998 Presents information on 4 year colleges and universities and 2 year community colleges and technical schools **The College Handbook, 1996** College Board,College Board Staff,1995-08 For over 50 years students and their parents have relied on this handbook for complete facts about colleges throughout the country The only one volume guide to all accredited colleges both two and four year schools the guide provides up to date information on admission policies acceptance rates financial aid campus life majors and more Life Sciences : Microgravity and Space Radiation Effects COSPAR. Scientific Commission F. Symposium F2.5,2000 **Electrochemical and Metallurgical Industry** Eugene Franz Roeber,Howard Coon Parmelee,1920

Reviewing **Life Sciences May Controlled Test 2015**: Unlocking the Spellbinding Force of Linguistics

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