

- 1.1.7 Which ONE of the following is an advantage of the testes being held in the scrotum, outside the body cavity?
- A More sperm can be stored in the scrotum.
  - B Sperm formation is more efficient at temperatures below the normal body temperature.
  - C The testes are better protected in the scrotum than in the body cavity.
  - D There is more time for prostate secretions to be added to the sperm.
- 1.1.8 Meiosis in a diploid cell results in ...
- A four identical gametes.
  - B four haploid gametes.
  - C two different diploid gametes.
  - D four gametes having the same chromosome number as the parent cell.
- 1.1.9 The list below gives some of the stages involved in gamete and zygote formation.
1. Prophase I
  2. Prophase II
  3. Metaphase I
  4. Fertilisation
- Which ONE of the following combinations of the above stages contributes to genetic variation?
- A 1, 2 and 3
  - B 1, 3 and 4
  - C 2 and 3
  - D 3 and 4

(9 x 2) (18)

# 2014 Exemplar P1 Life Science

**RD Boyd**



## **2014 Exemplar P1 Life Science:**

**Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges** Jonathan E. Suk, Kathleen M. Vogel, Amanda Jane Ozin, 2015-06-04 In September 2011 scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research but would have significant policy and intelligence implications The findings presented a modified variant of the H5N1 avian influenza virus hereafter referred to as the H5N1 virus that was transmissible via aerosol between ferrets These results suggested a worrisome possibility the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic In response a series of international discussions on the nature of dual use life science arose These discussions addressed the complex social technical political security and ethical issues related to dual use research This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and international perspectives **The Constitution of Phenomenal Consciousness** Steven M. Miller, 2015-06-15 Philosophers of mind have been arguing for decades about the nature of phenomenal consciousness and the relation between brain and mind More recently neuroscientists and philosophers of science have entered the discussion Which neural activities in the brain constitute phenomenal consciousness and how could science distinguish the neural correlates of consciousness from its neural constitution At what level of neural activity is consciousness constituted in the brain and what might be learned from well studied phenomena like binocular rivalry attention memory affect pain dreams and coma What should the science of consciousness want to know and what should explanation look like in this field How should the constitution relation be applied to brain and mind and are other relations like identity supervenience realization emergence and causation preferable Building on a companion volume on the constitution of visual consciousness AiCR 90 this volume addresses these questions and related empirical and conceptual territory It brings together for the first time scientists and philosophers to discuss this engaging interdisciplinary topic *Guide to the Library of Congress Classification* Lois Mai Chan, Sheila S. Intner, Jean Weihs, 2016-09-26 Like earlier editions this thoroughly updated sixth edition of the classic textbook provides readers with a basic understanding of the Library of Congress Classification system and its applications The Library of Congress Classification system is used in academic legal medical and research libraries throughout North America as well as worldwide accordingly catalogers and librarians in these settings all need to be able to use it The established gold standard text for Library of Congress Classification LCC the sixth edition of *Guide to the Library of Congress Classification* updates and complements the classic textbook's coverage of cataloging in academic and research libraries Clear and easy to understand the text describes the reasoning behind assigning subject headings and subheadings including use of tables explains the principles structure and format of LCC details notation tables assigning class numbers and individual classes and covers classification of special types of library materials The last chapter of this perennially useful resource addresses

the potential role of classification in libraries of the future      Endoplasmic reticulum - shape and function in stress translation Patrick Schäfer,Lorenzo Frigerio,Federica Brandizzi,Stephen H Howell,2015-05-05 The endoplasmic reticulum ER is a manufacturing unit in eukaryotic cells required for the synthesis of proteins lipids metabolites and hormones Besides supporting cellular signalling networks by its anabolic function the ER on its own or in communication with other organelles directly initiates signalling processes of physiological significance Based on the intimate and immediate involvement in stress signalling the ER is considered as sensory organelle on which cells strongly rely to effectively translate environmental cues into adaptive stress responses The transcellular distribution of the ER providing comprehensive cell to cell connections in multicellular organisms probably allows a concerted action of cell alliances and tissue areas towards environmental constraints At the cellular level stress adaptation correlates with the capability of the ER machinery to synthesise proteins participating in stress signalling as well as in the activation of ER membrane localised proteins to start cell protective signalling processes Importantly depending on the stress insult the ER either supports protective strategies or initiates cell death programmes Recent genetic molecular and cell biological studies have drawn an initial picture of underlying signalling events activated by ER membrane localised proteins In this Research Topic we provided a platform for articles describing research on ER morphology and metabolism with a focus on stress translation The Research Topic is sub divided into the following sections 1 ER in stress signalling and adaptation 2 ER structure and biosynthetic functions 3 Regulation of protein processing 4 Regulation of programmed cell death      **Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)** Union of International Associations,2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events      Mason and McCall Smith's Law and Medical Ethics Graeme T. Laurie,Shawn Harmon,Edward Dove,2019 This classic textbook has provided students of medical law and ethics with a framework for exploring this fascinating subject for over 30 years Providing coverage of all of the topics found on medical law courses it gives an overview of the inter relationship between ethical medical practice and the law Medical law is significantly shaped by the courts and as such this book provides extensive coverage of recent judicial decisions as well as statutory developments The new edition continues to evolve to reflect changes in the law and shifting ethical opinions

Pathways to Urban Sustainability National Academies of Sciences, Engineering, and Medicine,Policy and Global Affairs,Science and Technology for Sustainability Program,Committee on Pathways to Urban Sustainability: Challenges and Opportunities,2016-10-11 Cities have experienced an unprecedented rate of growth in the last decade More than half the world s population lives in urban areas with the U S percentage at 80 percent Cities have captured more than 80 percent of the globe s economic activity and offered social mobility and economic prosperity to millions by clustering creative innovative and educated individuals and organizations Clustering populations however can compound both positive and negative conditions with many modern urban areas experiencing growing inequality debility and environmental degradation The

spread and continued growth of urban areas presents a number of concerns for a sustainable future particularly if cities cannot adequately address the rise of poverty hunger resource consumption and biodiversity loss in their borders Intended as a comparative illustration of the types of urban sustainability pathways and subsequent lessons learned existing in urban areas this study examines specific examples that cut across geographies and scales and that feature a range of urban sustainability challenges and opportunities for collaborative learning across metropolitan regions It focuses on nine cities across the United States and Canada Los Angeles CA New York City NY Philadelphia PA Pittsburgh PA Grand Rapids MI Flint MI Cedar Rapids IA Chattanooga TN and Vancouver Canada chosen to represent a variety of metropolitan regions with consideration given to city size proximity to coastal and other waterways susceptibility to hazards primary industry and several other factors

**Proactive work design in unstructured work: New challenges and opportunities** Arianna Costantini, Keri Pekaar, Hai-Jiang Wang, Piet Van Gool, 2023-03-01

**Casarett & Doull's Toxicology: The Basic Science of Poisons, 9th Edition** Curtis D. Klaassen, 2018-11-23 Toxicology's gold standard text completely updated to reflect the latest breakthroughs and discoveries A Doody's Core Title for 2024 2021 Casarett Doull's Toxicology The Basic Science of Poisons Ninth Edition equips you with an unsurpassed understanding of modern toxicology including the key principles concepts mechanisms chemical specific toxicity and modes of thought that are the foundation of the discipline This trusted classic not only delivers a comprehensive review of the essential components of toxicology it offers the most up to date revealing and in depth look at the systemic responses of toxic substance available anywhere Casarett Doull's Toxicology The Basic Science of Poisons Ninth Edition is logically divided into seven sections General Principles of Toxicology Disposition of Toxicants Non Organ Directed Toxicity Target Organ Toxicity Toxic Agents Environmental Toxicology Applications of Toxicology Many new contributors capture the progress made in toxicology over the past few years This edition is markedly updated from the previous edition with more than one third of the chapters authored by scientists who have not made previous contributions to the book Sharing their expertise they deliver dynamic new coverage of the importance of apoptosis autophagy cytokines growth factors oncogenes cell cycling receptors gene regulation protective mechanisms repair mechanisms transcription factors signaling pathways transgenic mice knock out mice humanized mice polymorphisms microarray technology second generation sequencing genomics proteomics epigenetics exposome microbiota read across adverse outcome pathways high content screening computational toxicology innovative test methods and organ on a chip in understanding the mechanisms of toxicity and the regulation of chemicals A true essential If you are in need of an up to date all in one overview of the biomedical and environmental aspects of toxicology written by experts and presented in full color your search ends here

**Canadian Journal of Fisheries and Aquatic Sciences**, 2014-05

**Handbook of Applied Hydrology, Second Edition** Vijay P. Singh, 2016-03-07 Fully Updated Hydrology Principles Methods and Applications Thoroughly revised for the first time in 50 years this industry standard resource features chapter contributions from a who s

who of international hydrology experts Compiled by a colleague of the late Dr Chow Chow s Handbook of Applied Hydrology Second Edition covers scientific and engineering fundamentals and presents all new methods processes and technologies Complete details are provided for the full range of ecosystems and models Advanced chapters look to the future of hydrology including climate change impacts extraterrestrial water social hydrology and water security Chow s Handbook of Applied Hydrology Second Edition covers The Fundamentals of Hydrology Data Collection and Processing Hydrology Methods Hydrologic Processes and Modeling Sediment and Pollutant Transport Hydrometeorologic and Hydrologic Extremes Systems Hydrology Hydrology of Large River and Lake Basins Applications and Design The Future of Hydrology Geotitles ,1993

**Science Citation Index** ,1994 Vols for 1964 have guides and journal lists **Canadian Periodical Index** ,1996

**Book Review Digest** ,1983 Excerpts from and citations to reviews of more than 8 000 books each year drawn from coverage of 109 publications Book Review Digest provides citations to and excerpts of reviews of current juvenile and adult fiction and nonfiction in the English language Reviews of the following types of books are excluded government publications textbooks and technical books in the sciences and law Reviews of books on science for the general reader however are included The reviews originate in a group of selected periodicals in the humanities social sciences and general science published in the United States Canada and Great Britain Publisher

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