



LIFE SCIENCES - Grade 10

TOPIC TEST: History of Life on Earth

MARKS: 30

TIME: 30 minutes

SECTION A

QUESTION 1

Various options are given as possible answers to the following questions. Choose the answer and write only the letter (A to D) next to the question number (1.1 to 1.6) in the ANSWER BOX. For example 1.6 D.

1.1 Palaeontology is a study of

- A. the hardness of radioactive substances
- B. continental drift
- C. fossils
- D. changes during the Cambrian explosion

1.2 Which method allows scientists to say that one fossil is older than the other?

- A. Fossilization
- B. Relative dating
- C. Petrification
- D. Radiometric dating

1.3 A period in the earth's history where global temperatures plummeted and there is extensive glaciation is known as

- A. the greenhouse effect
- B. a cold spell
- C. a hole in the ozone
- D. an ice age

1.4 _____ are the richest sources of fossils

- A. Layers of strata
- B. Index fossils
- C. Mineral salts
- D. Sedimentary rocks

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Multi-omic Data Integration Paolo Tieri, Christine Nardini, Jennifer Elizabeth Dent, 2015-09-17 Stable predictive biomarkers and interpretable disease signatures are seen as a significant step towards personalized medicine. In this perspective integration of multi omic data coming from genomics transcriptomics glycomics proteomics metabolomics is a powerful strategy to reconstruct and analyse complex multi dimensional interactions enabling deeper mechanistic and medical insight. At the same time there is a rising concern that much of such different omic data although often publicly and freely available lie in databases and repositories underutilised or not used at all. Issues coming from lack of standardisation and shared biological identities are also well known. From these considerations a novel pressing request arises from the life sciences to design methodologies and approaches that allow for these data to be interpreted as a whole i.e. as intertwined molecular signatures containing genes proteins mRNAs and miRNAs able to capture inter layers connections and complexity. Papers discuss data integration approaches and methods of several types and extents their application in understanding the pathogenesis of specific diseases or in identifying candidate biomarkers to exploit the full benefit of multi omic datasets and their intrinsic information content. Topics of interest include but are not limited to Methods for the integration of layered data including but not limited to genomics transcriptomics glycomics proteomics metabolomics Application of multi omic data integration approaches for diagnostic biomarker discovery in any field of the life sciences Innovative approaches for the analysis and the visualization of multi omic datasets Methods and applications for systematic measurements from single undivided samples comprising genomic transcriptomic proteomic metabolomic measurements among others Multi scale approaches for integrated dynamic modelling and simulation Implementation of applications computational resources and repositories devoted to data integration including but not limited to data warehousing database federation semantic integration service oriented and or wiki integration Issues related to the definition and implementation of standards shared identities and semantics with particular focus on the integration problem Research papers reviews and short communications on all topics related to the above issues were welcomed

Canine Olfaction Science and Law Tadeusz Jezierski, John Ensminger, L. E. Papet, 2016-04-20 The value of the canine nose is well documented and working dogs are being utilized for their olfactory skills in an increasing number of fields. Not only are dogs used by police security and the military but they are also now used in forensic science in medical detection of disease in calculating population trends of endangered species and eradicating invasive species in protected environments and in identifying infestations and chemical contaminants Edited and contributed to by eminent scholars Canine Olfaction Science and Law Advances in Forensic Science Medicine Conservation and Environmental Remediation takes a systematic scientific approach to canine olfaction. It includes work from scientists working in pure and applied disciplines trainers and handlers who have trained and deployed detection dogs and lawyers who have evaluated evidence produced with the aid of detection and scent identification dogs. The book is divided into six

sections covering The anatomy genetics neurology and evolution of canine olfaction as well as diseases affecting it The chemistry and aerodynamics of odors Behavior learning and training Uses of canine olfaction in forensics and law Uses in conservation and remediation Uses in detection of diseases and medical conditions The various contributors describe cutting edge research some conclusions of which are the subject of vigorous debates between various laboratories and researchers The editors have added cross references so that readers can consider the different perspectives that are currently being advanced and understand where consensus is being built and where more research needs to be done A useful practical reference Canine Olfaction Science and Law provides a wealth of information beneficial to a wide range of disciplines It aids trainers and handlers of detection dogs as well as various professionals in healthcare law enforcement forensic science and environmental conservation to gain a better understanding of the remarkable power of the canine nose while encouraging further advances in applications **Machine Learning Techniques on Gene Function Prediction** Quan Zou,Arun Kumar Sangaiah,Dariusz Mrozek,2019-12-04 *Sessional Papers* Canada. Parliament,1921 Report of the Dominion fishery commission on the fisheries of the province of Ontario 1893 issued as vol 26 no 7 supplement **Metals Abstracts** ,1995

Author Index to Psychological Index ... and Psychological Abstracts ... ,1960 Author Index to Psychological Index, 1894 to 1935, and Psychological Abstracts, 1927 to 1958 Columbia University. Psychology Library,1960 **The Morning Star and Free Baptist** ,1897 **Radio News** ,1921 Some issues 1943 July 1948 include separately paged and numbered section called Radio electronic engineering edition called Radionics edition in 1943 International Aerospace Abstracts ,1992 *The Continuing Study of Newspaper Reading* Advertising Research Foundation,1943 Imperial Reference Library ,1898 **Penrose's Annual** ,1972 Government Reports Announcements & Index ,1991 National Library Service Cumulative Book Review Index, 1905-1974: Authors. [A-Z National Library Service Corporation,1975 **Country Life** ,1959 General Catalogue of Printed Books to 1955 British Museum. Dept. of Printed Books,1967 Twentieth Century Encyclopaedia Charles Morris,1912 **Life Sciences** J. Grogan,2017 Solutions for All Life Sciences J. De Fontaine,2012

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