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**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

PHYSICAL SCIENCES: PHYSICS (P1) AND CHEMISTRY (P2)

PRE-TRIAL EXAM

22 AUGUST 2022

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TIME: 3 hours

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This question paper consists of 16 pages and 5 data sheets.

Life Science Question Paper2 For September 2014

O García



Life Science Question Paper 2 For September 2014:

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 **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 Value Practices in the Life Sciences and Medicine Isabelle Dussauge, Claes-Fredrik Helgesson, Francis Lee, 2015 This book provides a compelling scholarly statement about the interrelation and pliability of values in the life sciences medicine and health care The volume aims to aid our understanding of the roles of power knowledge production and economic action in the heavily scientised and economised areas of life science and medicine **Diverse Excursions in the Southeast: Paleozoic to Present** Ann E. Holmes, 2015-03-09 This volume contains field guides to the 2015 GSA Southeastern Section Meeting s field trips The guides explore geologic history and visit four regional geologic provinces the Nashville dome Blue Ridge Valley and Ridge and Cumberland Plateau

Canadian Journal of Earth Sciences ,2014 **Yearbook of International Organizations 2014-2015 (Volume 4)** Union of International Associations, 2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Providing both an international organizations and research bibliography Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on international organizations and transnational associations NASA SP ,1983 **A Catalog of NASA Special Publications** United States. National Aeronautics and Space Administration. Scientific and Technical Information Branch, 1981 **White Paper on Science and Technology** ,2014 A Catalog of NASA Special Publications ,1981 Publishers' Circular and Booksellers' Record of British and Foreign Literature ,1915 British Books ,1916 "The" Athenaeum ,1894 **The Publishers' Circular and Booksellers' Record** ,1915 **Railroad Age Gazette** ,1871 **The Oracle Encyclopaedia** ,1895 **Forest and Stream** ,1881 Christian Standard ,1905 **Records of Achievement: NASA Special Publications** ,1983 Engineering News ,1891

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