Life Science

Grade 12

PAPER 1



Oute: SEPTEMBER 2024

Time: 2 % HOURS

Mark: 550

#### INSTRUCTIONS AND INFORMATION

Read the following instruction carefully before answering the questions.

- Answer ALL questions.
- Write ALL the answers on the provided FOLIO PAPER.
- RIOLE OFF after each question.
- a. Start each section on a NEW page.
- Number the answers correctly according to the numbering system used in this question paper.
- Present your answers according to the instructions for each question.
- Do ALL drawings in pencil and label then in blue pen-
- Draw slagrams or flow charts only when asked to do so.
- The diagrams in this question paper are NOT all drawn to scale.
- 10 You may use a non-programmable calculator, protractor, and compans.
- 111 You may NOT use graph paper.
- 12. Write neatly and legibly.

EXAM AGREEMENT	
 (Name & Sumane); Grade	

hereby acknowledge that I will abide by all examination rules objudited below during the writing of my LIFE. SCIENCE evans.

#### RULES:

- I will not have any electronic equipment in my possession (cell phones, smart watches and earphones).
- 2. I will not cause any disruption during this exam in the exam venue.
- 3. I will be honest at all times.

All rules, as discussed with me, will be honoured and obeyed.

Learner Signature

# SECTION A Question 1

- Various options are provided as possible answers to 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 FOLIO PAPER, for example 1.1.6 E.
- 1.1.1 Hollow, pear-shaped organ.
  - Vagina.
  - Uherus.
  - Fallopian tubes
  - Placents.
- 1.1.2 Choose the letter that does not explain the process of oogenesis.
  - The diploid germinal epithelium cells of the ovaries go through the process of mitosis. to form many folicies.
  - Every 21 days, the folicle stimulating hormone (FSH) stimulates one folicle. Only one cell inside of that folicie enlarges and goes through the process of meiosis.
  - Out of the 4 haploid cells produced through melosis, only one cell will survive to form a mature ovum.
  - The other three cells from meiosis will degenerate.
- 1.1.3 Before copulation the male sperm is stored temporarily in the ...
  - seminal vesicles.
  - sorotum.
  - prostate pland
  - epididymis.
- 1.1.4 Structure that receives a stimulus and converts it into an impulse.
  - autonomic nervous system.
  - effector
  - stimulus.
  - receptor

REPORT.

# **Life Science September 2014 Question Paper**

**Peipei Pang** 

### **Life Science September 2014 Question Paper:**

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 **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 **Pharmaceutical Industry and Public Policy in Post-reform India** Reji K. Joseph, 2015-07-24 This book examines the impact of economic reforms in India on the pharmaceutical industry and access to medicines It traces the changing production and trade pattern of the industry research and development R D preferences and strategies of Indian pharmaceutical firms patent system alongside pricing policy measures and their shortcomings It also analyses the public health financing system in India driven largely by out of pocket expenditure about 60 per cent and characterised by very high share of medicines in total health expenditure A masterful insight into a topical area the work will be indispensable to those working on pharmaceutical industry and public policy It will be of interest to researchers scholars students and policy makers of economics industrial policy public policy intellectual property rights and health financing

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 Governing Intellectual Property Rights Within Publicly Funded Biobanks Rajam Neethu, 2019-06-21 Governing Intellectual Property Rights Within Publicly Funded Biobanks R Neethu The boom in biobanks and health databases as research infrastructures have evoked various legal and ethical debates Since then numerous new developments have emerged such as digitalization big data research and artificial intelligence which has important implications for biobank based research and collaborations This new paradigm offers new legal challenges for commercial involvement particularly within a publicly funded setting In this innovative book the author shows that securing maximum social benefit out of the knowledge emanating from the use of biobank resources lies in managing intellectual property inputs and outputs effectively in keeping with the values core to such research Focusing on the challenges of involving intellectual property rights IPRs particularly in the precompetitive phase of biobank based research the book offers an extensive understanding of the role of different IPRs and identifies the gaps in the law and its implications for biobanks The analysis covers important aspects in relation to biobanks such as Digital integration and biomedical data storage Ownership of biological samples Commercialization and benefit sharing Partnership models Public sector research Disposition of samples Consent Cross border exchange Trade secrecy Privacy Regulatory stewardship Business strategies Ethical considerations over biological resources Patenting of inventions relating to personalized medicine Ethical parameters within patent law and Rights regarding genetic data and databases The book includes observations case studies and interviews conducted by the author In conclusion the author offers cogent recommendations for legal interoperability of IP rules and research practices designed to enhance the ability of biobanks to share access and reuse data This book is the first of its kind to explore the organizational and legislative choices for biobanks particularly while engaging in the protection of research results and technology transfer within a publicly funded setting It will be of substantial interest to all stakeholders in biobanking especially policymakers biobankers and researchers working in the field of health law as

well as for legal practitioners academics and patient interest groups White Paper on Science and Technology, 2015 Canadian Journal of Earth Sciences ,2014 Wallace's Farmer ,2014 Hydrology in a Changing World Trevor Daniell, Henny A. J. van Lanen, 2014 Proceedings of the FRIEND Water conference held in Montpellier in October 2014 The Publishers' Circular and Booksellers' Record ,1911 The Publisher ,1911 Scientific American, 1883 Publishers' Circular and Booksellers' Record of British and Foreign Literature, 1913 British Books ,1911 The Farmers' Advocate and Home Magazine ,1914 English Mechanic and Mirror of Science and Art, 1907 The Mining Journal, Railway and Commercial Gazette, 1891 **English Mechanic and Mirror of Science** ,1904 English Mechanic and World of Science, 1906 **Nature** ,1893

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