



Province of the
EASTERN CAPE
DEPARTMENT OF EDUCATION

**NATIONAL SENIOR CERTIFICATE
GRADE 11**

**LIFE SCIENCES
CONTROLLED TEST 3
15 SEPTEMBER 2022**

TIME: 50 MINUTES

MARKS: 50

This question paper consists of 7 pages

INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering the questions.

1. Answer ALL the questions.
2. Write ALL the answers in your ANSWER BOOK.
3. Start the answer to EACH question at the top of a NEW page.
4. Number the answers correctly according to the numbering system used in this question paper.
5. Present your answers according to the instructions of each question.
6. Do ALL drawings in pencil and label them in blue or black ink.
7. Draw diagrams, tables or flow charts only when asked to do so.
8. The diagrams in this question paper are NOT necessarily drawn to scale.
9. Do NOT use graph paper.
10. You may use a non-programmable calculator, protractor and a compass where necessary.
11. Write neatly and legibly.
12. Round off all calculations to two decimals after the comma.

Life Science Controlled Test For September 2014

Kathleen Stassen Berger



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November 2019 Monthly Current Affairs with MCQs for Competitive Exams Disha Experts,2019-10-21 *October 2019 Monthly Current Affairs with MCQs for Competitive Exams* Disha Experts,2019-09-25 Nanoweapons Louis A. Del Monte,2017 Nanoweapons just might render humanity extinct in the near future a notion that is frightening and shocking but potentially true In Nanoweapons Louis A Del Monte describes the most deadly generation of military weapons the world has ever encountered With dimensions one thousandth the diameter of a single strand of human hair this technology threatens to eradicate humanity as it incites world governments to compete in the deadliest arms race ever In his insightful and prescient account of this risky and radical technology Del Monte predicts that nanoweapons will dominate the battlefield of the future and will help determine the superpowers of the twenty first century He traces the emergence of nanotechnology discusses the current development of nanoweapons such as the mini nuke which weighs five pounds and carries the power of one hundred tons of TNT and offers concrete recommendations founded in historical precedent for controlling their proliferation and avoiding human annihilation Most critically Nanoweapons addresses the question Will it be possible to develop deploy and use nanoweapons in warfare without rendering humanity extinct **Genomic Medicine** Dhavendra Kumar,Charis Eng,2015 The first edition of Genomics and Clinical Medicine provided an overview of genomics based advances in disease susceptibility diagnosis and prediction of treatment outcomes in various areas of medicine Since its publication the science of genomics has made tremendous progress and exciting new developments in biotechnology and bioinformatics have created possibilities that were inconceivable only a few years ago This completely revised second edition of Genomic Medicine reflects the rapidly changing face of applied and translational genomics in the medical and health context and provides a comprehensive coverage of principles of genetics and genomics relevant to the practice of medicine **Biosignal Processing and Computational Methods to Enhance Sensory Motor Neuroprosthetics** Mitsuhiro Hayashibe,David Guiraud,Jose L. Pons,Dario Farina,2016-01-22 Though there have been many developments in sensory motor prosthetics they have not yet reached the level of standard and worldwide use like pacemakers and cochlear implants One challenging issue in motor prosthetics is the large variety of patient situations which depending on the type of neurological disorder To improve neuroprosthetic performance beyond the current limited use of such systems robust bio signal processing and model based control involving actual sensory motor state with biosignal feedback would bring about new modalities and applications and could be a breakthrough toward adaptive neuroprosthetics Recent advances of Brain Computer Interfaces BCI now enable patients to transmit their intention of movement However the functionality and controllability of motor prosthetics itself can be further improved to take advantage of BCI interfaces In this Research Topic we welcome contribution of original research articles computational and experimental studies review articles and methodological advances related to biosignal processing that may enhance the functionality of sensory motor neuroprosthetics The scope of

this topic includes but is not limited to studies aimed at enhancing 1 computational biosignal processing in EMG Electromyography EEG Electroencephalography and other modalities of biofeedback information 2 the computational method in modeling and control of sensory motor neuroprosthetics 3 the systematic functionality aiming to provide solutions for specific pathological movement disorders 4 human interfaces such as BCI but in the case of BCI study manuscripts should be experimental studies which are applied to sensory motor neuroprosthetics in patients with motor disabilities

Animals and Medicine Jack Botting, 2015-05-04 *Animals and Medicine* The Contribution of Animal Experiments to the Control of Disease offers a detailed scholarly historical review of the critical role animal experiments have played in advancing medical knowledge Laboratory animals have been essential to this progress and the knowledge gained has saved countless lives both human and animal Unfortunately those opposed to using animals in research have often employed doctored evidence to suggest that the practice has impeded medical progress This volume presents the articles Jack Botting wrote for the Research Defence Society News from 1991 to 1996 papers which provided scientists with the information needed to rebut such claims Collected they can now reach a wider readership interested in understanding the part of animal experiments in the history of medicine from the discovery of key vaccines to the advancement of research on a range of diseases among them hypertension kidney failure and cancer This book is essential reading for anyone curious about the role of animal experimentation in the history of science from the nineteenth century to the present

SpaceX's Dragon: America's Next Generation Spacecraft Erik Seedhouse, 2015-11-04 Dragon V2 is a futuristic vehicle that not only provides a means for NASA to transport its astronauts to the orbiting outpost but also advances SpaceX's core objective of reusability A direct descendant of Dragon Dragon V2 can be retrieved refurbished and re launched It is a spacecraft with the potential to completely revolutionize the economics of an industry where equipment costing hundreds of millions of dollars is routinely discarded after a single use It was presented by SpaceX CEO Elon Musk in May 2014 as the spaceship that will carry NASA astronauts to the International Space Station as soon as 2016 SpaceX's Dragon America's Next Generation Spacecraft describes the extraordinary feats of engineering and human achievement that have placed this revolutionary spacecraft at the forefront of the launch industry and positioned it as the precursor for ultimately transporting humans to Mars It describes the design and development of Dragon provides mission highlights of the first six Commercial Resupply Missions and explains how Musk hopes to eventually colonize Mars

Ubiquitin and the Brain: Roles of Proteolysis in the Normal and Abnormal Nervous System Ashok N. Hegde, Fred W. van Leeuwen, 2017-10-10 Proteolysis by the ubiquitin proteasome pathway UPP in the nervous system has been extensively studied both in the context of normal physiological function as well as abnormal pathological conditions Although ubiquitin was used as a marker of brain pathology the normal functions of the UPP were not studied much in the nervous system until the 1990s The early investigations focused on synaptic plasticity which was followed by studies on the roles of protein degradation in the development of the nervous system Research on the

role of abnormal roles of the UPP follows a parallel trajectory Since the 2000s the field has grown to encompass many subareas of research and several model systems Despite the progress made many unanswered questions still remain For example there are many unknowns about the precise spatial and temporal control of protein degradation in the normal nervous system With respect to the roles of proteolysis in brain pathology a major challenge is to elucidate the connection between impaired protein degradation and disease progression In addition in depth studies of the roles of ubiquitin proteasome mediated proteolysis in neurodegenerative diseases are promising in identifying therapeutic targets This ebook contains original research papers and insightful reviews that cover several aspects of proteolysis by the UPP and its physiological as well as pathological functions in the nervous system *Specification of Drug Substances and Products* Christopher M. Riley,K. Lien Nguyen,2024-09-22 *Specification of Drug Substances and Drug Products* is a fully comprehensive reference on Specification Setting for Pharmaceuticals There have been several recent developments in the ICH Guidelines which were not captured in previous editions notably the new guideline on Development of Analytical Procedure and the revisions to the validation guidelines and the specification guidelines This edition contains chapters discussing the unique requirements for the universal critical quality attributes as well as the specific tests required to characterize and control different types of products ranging in complexity from small molecules in immediate release oral dosage forms to complex products such as drug antibody conjugates and mRNA based products This substantially expanded revision of the 2nd edition will serve as practical comprehensive reference for scientists managers educators and consultants involved in the development and regulation of pharmaceutical products Presents critical assessment potential impact and application of the recent revisions to ICH guidelines on method validation Q2 as well as the latest guideline on Analytical Method Development Q14 and the special regional requirements in non ICH regions Addresses comprehensive treatment of the development and validation of analytical methodologies used in the analysis control and specification of a variety of different types of dosage forms ranging from traditional oral solid dosage forms to proteins nRNA based drugs vaccines and gene therapy This book will also address drug device combinationproducts such as digital drug delivery systems transdermal systems and inhalation products Presents detailed treatment of latest statistical approaches including new approaches to the treatment of validation data method specification setting and shelf life prediction based on stability data *JARQ.* ,2019

Developing Person Through Childhood and Adolescence Kathleen Stassen Berger,2015-04-15 Exceptional in its currency global in its cultural reach Kathleen Berger s portrait of the scientific investigation of childhood and adolescent development helps bring an evolving field into the evolving classroom Guided by Berger s clear inviting authorial voice and page after page of fascinating examples from cultures around the world students see how classic and current research and the lives of real people shape the field s core theories and concepts In addition to Kathleen Berger s exhaustive updating of the research this edition is notable for its thorough integration of assessment throughout learning objectives assessments

after each section expanded end of chapter quizzes all aligned with national standards CERN Courier ,2014 *American Journal of Veterinary Research* ,2017 Volumes for 1956 include selected papers from the proceedings of the American Veterinary Medical Association Standard & Poor's Stock Reports ,2003 *Nuclear Science Abstracts* ,1972
 Wisconsin Natural Resources ,2013 World Meetings ,1978 The Value Line Investment Survey ,2009

Maxcy-Rosenau-Last Public Health and Preventive Medicine: Sixteenth Edition Matthew L. Boulton,Robert H. Wallace,2021-06-05 Now in full color the 1 text spanning the fields of public health and preventive medicine brings you fully up to date on the issues and topics you need to know A Doody s Core Title for 2024 2023 Maxcy Rosenau Last Public Health and Preventive Medicine has been updated and revised for the first time in more than a decade This highly anticipated and extensive edition provides the most current information and insights available on evidence based public health and preventive medicine from basic methodologies of public health to principles of epidemiology and infection control to environmental toxicology to global health The most comprehensive resource of its kind Maxcy Rosenau Last Public Health and Preventive Medicine is the clear choice for anyone seeking a career in public health Features Edited and written by a who s who of global experts 384 photos and illustrations New full color format and improved artwork Significantly expanded coverage of diseases and preventive methods common in international markets Greater use of tables and summary lists for easier reading and retention 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

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