

**GRADE 12  
LIFE SCIENCES  
CONTROL TEST 3  
28 August 2017**

Total: 75  
Time: 75 minutes

	Possible marks
Section A:	20
Section B:	25
Section C:	30
Total:	75

**Instructions:**

Read the following instructions carefully before answering the questions.

- Answer ALL questions of SECTION A, B and C.
- Write ALL the answers in your ANSWER BOOK.
- Start the answers to each question at the top of a NEW page.
- Number the answers according to the numbering system used in the question paper.
- Present your answers according to the instructions of each question.
- ALL drawings should be done in pencil and labelled in blue or black ink.
- Draw diagrams, flow charts or tables only when asked to do so.
- The diagrams in this question paper are NOT necessarily drawn to scale.
- You must use a non-programmable calculator, protractor and compass where necessary.
- Write neatly and legibly.

This paper consists of 8 pages and 4 questions

**SECTION A**

**QUESTION 1**

1.1 Various options are provided as possible answers to the following questions. Choose the answer and write only the letter (A to D) next to the question number (1.1.1 to 1.1.5), for example 1.1.1 D.

- 1.1.1 Eutrophication is caused by...
  - the run-off of fertilisers from farms
  - plastic and rubbish pollution
  - the decomposition of organic material
  - poisoning of water by blue-green algae

(2)
- 1.1.2 Alien invasive plants out-compete indigenous plants and reduce biodiversity in the following way:
  - Aquatic invasive plants block rivers, release toxins and use up oxygen and light.
  - They have natural predators which feed on indigenous plants
  - They grow slower but sturdier/taller
  - Indigenous animal species don't prefer to eat their fruits or seeds, with the result that they grow less

(2)
- 1.1.3 Which of the following descriptions is TRUE about endocrine glands?
  - Glands with ducts that release hormones
  - Glands with ducts that release enzymes
  - Glands that release hormones directly into the blood
  - Glands that release enzymes directly into the blood

(2)
- 1.1.4 The most common effects of mining wastes on water quality include:
  - Increased salinity
  - Increased sediment load
  - Increased acidity
  - Increased metal content

2 [ 7 x 10 = 70]

**SECTION B**

**QUESTION 2**

2.1 Read through the following abstract and answer the questions that follow.

**U.N. food agency warns 140 million face hunger in Southern Africa**  
About 140 million people face hunger in Southern Africa because of a drought that has been exacerbated by an El Niño weather pattern (a warming of ocean surface temperatures) according to the United Nations World Food Programme (WFP). South Africa faces its worst drought in decades after 2015 was the driest calendar year since records began in 1964. Cape Town is at a dire state that means it could have to import up to 6 million tons of maize over half of its consumption needs. Maize prices in South Africa hit record highs. "One particular worrying symptom of Southern Africa's vulnerability to food and nutrition security is the alarming rate of chronic malnutrition."

Adapted from WFP/IFPRI and SADC News on December 15, January 2017

- 2.1.1 What is "El Niño"?
- 2.1.2 Describe how human activities could negatively influence climate that causes drought and how it influences food security.
- 2.1.3 South Africa is a semi-arid country. With the recent drought, a lot of strain was put on our water availability. Suggest THREE ways in which South Africans can increase the water availability in the future.
- 2.1.4 Use the information above and predict how South African consumers will be affected by the drought.
- 2.1.5 Write a short paragraph to highlight the main problem the world is facing as a result from the cartoon. Mention TWO ways in which it can probably be solved.



(5)

TOTAL QUESTION 2: 15

2 [ 7 x 10 = 70]

- A (5), (8) and (9)-only
- (5), (8) and (9)-only
- (8), (9) and (9)-only
- (5), (8) and (9)

(2)

1.1.5 Genetically modified crops are important because.....

- they have different genes
- they have desirable characteristics for improved crop yields
- they need more pesticides
- they don't need water to grow

(2)  
(5x2=10)

1.2 Give the correct biological term for each of the following descriptions. Write only the term next to the question number.

- 1.2.1 Organic chemical messengers that all have an effect on target organs.
- 1.2.2 The (large) removing of plants or animals from the wild.
- 1.2.3 The maintenance of the body's internal environment.
- 1.2.4 The addition of something to the ecosystem that has a detrimental effect on it.
- 1.2.5 An area of land that is partly covered by water for some or all of the year.

(5x1=5)

1.3 Choose the correct description from Column B that suits the term in Column A. Only write the correct letter next to the question number. Example 1.3.1 F.

Column A		Column B
1.3.1	TSH	A Stimulates the adrenal glands
1.3.2	Androstenedione	B Stimulates follicle growth
1.3.3	FSH	C Develops secondary sexual characteristics
1.3.4	ADH	D Stimulates the release of oxytocin
1.3.5	Testosterone	E Influences the maturing of cell
		F Enables the body to respond to an emergency
		G Influences maturing of water
		H Stimulates the thyroid gland

(5x1=5)

Total Section A : 20

2 [ 7 x 10 = 70]

# Grade1life Sdciences Term3 Control Test2014

**Jae Kun Shim**



## **Grade 1 Life Sciences Term 3 Control Test 2014:**

**How to Grade for Learning** Ken O'Connor, 2017-10-04 Implement standards based grading practices that help students succeed Classroom assessment methods should help students develop to their full potential but meshing traditional grading practices with students achievement on standards has been difficult Making lasting changes to grading practices requires both knowledge and willpower Discover eight guidelines for good grading recommendations for practical applications and suggestions for implementing new grading practices as well as The why s and the how to s of implementing standards based grading practices Tips from 48 nationally and internationally known authors and consultants Additional information on utilizing level scores rather than percentages Reflective exercises Techniques for managing grading more efficiently **The Trials of Evidence-based Education** Stephen Gorard, Beng Huat See, Nadia Siddiqui, 2017-06-26 The Trials of Evidence based Education explores the promise limitations and achievements of evidence based policy and practice as the attention of funders moves from a sole focus on attainment outcomes to political concern about character building and wider educational impacts Providing a detailed look at the pros cons and areas for improvement in evidence based policy and practice this book includes consideration of the following What is involved in a robust evaluation for education The issues in conducting trials and how to assess the trustworthiness of research findings New methods for the design conduct analysis and use of evidence from trials and examining their implications What policy makers head teachers and practitioners can learn from the evidence to inform practice In this well structured and thoughtful text the results and implications of over 20 studies conducted by the authors are combined with a much larger number of studies from their systematic reviews and the implications are spelled out for the research community policy makers schools wanting to run their own evaluations and for practitioners using evidence **Side Effects of Drugs Annual** , 2017-10-19 Side Effects of Drugs Annual A Worldwide Yearly Survey of New Data in Adverse Drug Reactions Volume 39 presents the latest on a variety of topics with new chapters in this volume covering Central nervous system stimulants and drugs that suppress appetite Antidepressant drugs Lithium Drugs of abuse Hypnotics and sedatives Antipsychotic Drugs Antiepileptic Drugs Opioid analgesics and narcotic antagonists Anti inflammatory and antipyretic analgesics and drugs used in gout General anesthetics and therapeutic gases Local anesthetics Neuromuscular blocking agents and skeletal muscle relaxants and more First published in 1977 and continually published as a yearly update this series provides clinicians and medical investigators with a reliable and critical survey of new data and trends in the area of adverse drug reactions and interactions with an international team of specialists contributing their expertise each year Provides a critical yearly survey of the new data and trends regarding the side effects of drugs Authored and reviewed by worldwide pioneers in the clinical and practice sciences Presents an essential clinical on the side effects of drugs for practitioners and healthcare professionals alike **Life Span Motor Development** Kathleen Haywood, Nancy Getchell, 2024-10-15 Life Span Motor Development Eighth Edition uses the model of constraints in discussing reasons for

changes in movement throughout the life span It encourages students to examine how the interaction of the individual environment and task bring about changes in a person s movements *Preparing Pre-Service Teachers for the Inclusive Classroom* Dickenson, Patricia, Keough, Penelope, Courduff, Jennifer, 2016-10-25 Teachers must be prepared to create an effective learning environment for both general education students and students with special needs This can be accomplished by equipping teachers with the proper knowledge and strategies *Preparing Pre Service Teachers for the Inclusive Classroom* discusses the latest approaches skills and methodologies on how to support special needs students Highlighting relevant perspectives on technology implementation curriculum development and instructional design this book is an ideal reference source for pre service teachers teacher educators researchers professionals and academics in the education field

*Psycho-oncologie* Darius Razavi, Nicole Delvaux, 2019-10-22 La prise en charge des patients en oncologie implique tous les acteurs des soins oncologiques chirurgien ne s m decins g n ralistes psychiatres psychologues infirmier e s kin sith rapeutes etc Les interventions sont diverses et sp cifiques les interventions pr ventives pour viter le d veloppement d une morbidit pr visible la r habilitation pour r duire ou supprimer les invalidit s apr s la gu rison les interventions de soutien pour accompagner le patient et ses proches lors des phases de diagnostic de traitement de r mission ou de survivorship de progression enfin la palliation pour am liorer le confort lorsqu un traitement vis e curative ne peut plus tre assur Le contenu de cet ouvrage refl te l tat actuel de la clinique psycho oncologique Les diff rents types d adaptation psychologique et les troubles psychiatriques pouvant survenir sont d crits tant pour les patients que pour les proches De nombreux concepts sont pr sent s et discut s le stress l incertitude la d tresse la souffrance le d ni les attributions la r silience etc Certaines probl matiques particuli res sont aussi pr sent es et d velopp es les comportements risque et les facteurs de risque psychologiques li s au d veloppement du cancer l adaptation et ses troubles aux diff rentes phases de la maladie les troubles cognitifs la confusion mentale l adaptation des proches les r actions des adolescents et jeunes adultes les r actions des enfants face au cancer d un parent la prise en charge de la douleur les prises de d cisions en fin de vie et le deuil Les diverses interventions psychologiques sp cifiques ou non ces probl matiques sont expos es information ducation th rapies non directives et directives associ es ou non des traitements psychopharmacologiques Les auteurs donnent une place particuli re la communication soignant soign et donc au r le primordial de la formation psychologique du personnel soignant afin de permettre la transmission la plus appropri e possible des donn es complexes li es la maladie et aux traitements Cette formation est aussi primordiale pour apporter un soutien tant au patient qu ses proches *Celebrating 40 Years of the Chilean Society of Pharmacology* Gonzalo E. Yevenes, Jorge Fuentealba, Javier A. Bravo, Guillermo Diaz-Araya, Ram n Sotomayor-Zarate, Jenny Lucy Fiedler, Miguel Reyes-Parada, 2021-01-19 **Scott-Brown's Otorhinolaryngology and Head and Neck Surgery, Eighth Edition** John Watkinson, Ray Clarke, 2018-07-17 Scott Brown s Otorhinolaryngology is used the world over as the definitive reference for trainee ENT surgeons audiologists and trainee head and neck surgeons as well as

specialists who need detailed reliable and authoritative information on all aspects of ear nose and throat disease and treatment Key points accompanied by a fully searchable electronic edition making it more accessible containing the same content as the print edition with operative videos and references linked to Medline highly illustrated in colour throughout to aid understanding updated by an international team of editors and contributors evidence based guidelines will help you in your clinical practice features include key points best clinical practice guidelines details of the search strategies used to prepare the material and suggestions for future research new Endocrine section Scott Brown will provide trainee surgeons ENT and Head and Neck audiologists and ENT physicians with quick access to relevant information about clinical conditions and provide them with a starting point for further research The accompanying electronic edition enhanced with operative videos will enable both easy reference and accessibility on the move

*Rutter's Child and Adolescent Psychiatry and Psychology* Anita Thapar, Daniel S. Pine, Samuele Cortese, Cathy Creswell, Tamsin J. Ford, James F. Leckman, Argyris Stringaris, 2025-08-11 Up to date edition of a leading textbook on child and adolescent psychiatry with new information on COVID 19 digital technology and more Both interdisciplinary and international in scope Rutter's Child and Adolescent Psychiatry delivers an expansive overview of the current state of the field covering the latest research advancements and technological developments This Seventh Edition has undergone an extensive revision process including a comprehensive review of chapter outlines and two stages of critical review for each full chapter by the editorial team In this edition each author provides short video clips to give a taste of their chapter along with instructor slides for teaching and training New chapters cover changes in science and the needs of children around the world global threats including COVID 19 wars and natural disasters care in low resource settings diversity in relation to gender and sexual orientation and body dysmorphic disorder as well as digital technology detailing the growing interest in digital approaches to assessment and intervention Written by a team of expert editors and contributors Rutter's Child and Adolescent Psychiatry discusses sample topics including Diagnosis diagnostic formulations and classifications of developmental psychopathology as well as neurodevelopmental disorders and emotion emotional regulation and emotional disorders Child maltreatment and sexual abuse as well as influences on psychopathology including genetics epigenetics psychosocial adversity parental psychiatric disorders and physical treatment Available treatments including parenting programs cognitive behavioural therapy family interventions and relationship based treatments Contexts of clinical encounters including refugee and asylum seeking children children affected by HIV AIDS and children with specific sensory impairments The Seventh Edition of Rutter's Child and Adolescent Psychiatry is an essential resource for all professionals working and learning in the fields of child and adolescent mental health and developmental psychopathology along with clinicians working in primary care and paediatric settings

Handbook of Child Psychology and Developmental Science, Cognitive Processes, 2015-04-06 The essential reference for human development theory updated and reconceptualized The Handbook of Child Psychology and

Developmental Science a four volume reference is the field defining work to which all others are compared First published in 1946 and now in its Seventh Edition the Handbook has long been considered the definitive guide to the field of developmental science Volume 2 Cognitive Processes describes cognitive development as a relational phenomenon that can be studied only as part of a larger whole of the person and context relational system that sustains it In this volume specific domains of cognitive development are contextualized with respect to biological processes and sociocultural contexts Furthermore key themes and issues e g the importance of symbolic systems and social understanding are threaded across multiple chapters although every each chapter is focused on a different domain within cognitive development Thus both within and across chapters the complexity and interconnectivity of cognitive development are well illuminated Learn about the inextricable intertwining of perceptual development motor development emotional development and brain development Understand the complexity of cognitive development without misleading simplification reducing cognitive development to its biological substrates or viewing it as a passive socialization process Discover how each portion of the developmental process contributes to subsequent cognitive development Examine the multiple processes such as categorizing reasoning thinking decision making and judgment that comprise cognition The scholarship within this volume and as well across the four volumes of this edition illustrate that developmental science is in the midst of a very exciting period There is a paradigm shift that involves increasingly greater understanding of how to describe explain and optimize the course of human life for diverse individuals living within diverse contexts This Handbook is the definitive reference for educators policy makers researchers students and practitioners in human development psychology sociology anthropology and neuroscience

**Campbell-Walsh Urology E-Book** Alan J. Wein, Louis R. Kavoussi, Alan W. Partin, Craig A. Peters, 2015-10-23 Internationally lauded as the preeminent text in the field Campbell Walsh Urology continues to offer the most comprehensive coverage of every aspect of urology Perfect for urologists residents and practicing physicians alike this updated text highlights all of the essential concepts necessary for every stage of your career from anatomy and physiology through the latest diagnostic approaches and medical and surgical treatments The predominant reference used by The American Board of Urology for its examination questions Algorithms photographs radiographs and line drawings illustrate essential concepts nuances of clinical presentations and techniques and decision making Key Points boxes and algorithms further expedite review Features hundreds of well respected global contributors at the top of their respective fields A total of 22 new chapters including Evaluation and Management of Men with Urinary Incontinence Minimally Invasive Urinary Diversion Complications Related to the Use of Mesh and Their Repair Focal Therapy for Prostate Cancer Adolescent and Transitional Urology Principles of Laparoscopic and Robotic Surgery in Children Pediatric Urogenital Imaging and Functional Disorders of the Lower Urinary Tract in Children Previous edition chapters have been substantially revised and feature such highlights as new information on prostate cancer screening management of non muscle invasive bladder cancer and urinary tract infections in children

Includes new guidelines on interstitial cystitis bladder pain syndrome uro trauma and medical management of kidney stone disease Anatomy chapters have been expanded and reorganized for ease of access Boasts an increased focus on robotic surgery image guided diagnostics and treatment and guidelines based medicine Features 130 video clips that are easily accessible via Expert Consult Periodic updates to the eBook version by key opinion leaders will reflect essential changes and controversies in the field Expert Consult eBook version included with purchase This enhanced eBook experience offers access to all of the text figures tables diagrams videos and references from the book on a variety of devices     Handbook of Intellectual Disabilities Johnny L. Matson, 2019-09-03 This handbook offers a comprehensive review of intellectual disabilities ID It examines historical perspectives and foundational principles in the field The handbook addresses philosophy of care for individuals with ID as well as parent and professional issues and organizations staffing and working on multidisciplinary teams Chapters explore issues of client protection risk factors of ID basic research issues and legal concerns In addition chapters include information on evidence based assessments and innovative treatments to address a variety of behaviors associated with ID The handbook provides an in depth analysis of comorbid physical disorders such as cerebral palsy epilepsy and seizures and developmental coordination disorders DCD in relation to ID Topics featured in this handbook include Informed consent and the enablement of persons with ID The responsible use of restraint and seclusion as a protective measure Vocational training and job preparation programs that assist individuals with ID Psychological and educational approaches to the treatment of aggression and tantrums Emerging technologies that support learning for students with ID Key sexuality and relationship issues that are faced by individuals with ID Effective approaches to weight management for individuals with intellectual and developmental disabilities The Handbook of Intellectual Disabilities is an essential reference for researchers graduate students clinicians and related therapists and professionals in clinical child and school psychology pediatrics social work developmental psychology behavioral therapy rehabilitation child and adolescent psychiatry and special education     Effective Strategies for Promoting Health-Enhancing Children's Physical Activity Stevo Popovic, Radenko M. Matic, Kostas Alexandris, Irena Valantine, Ivana M. Milovanovic, 2022-08-29     *Guccione's Geriatric Physical Therapy E-Book* Dale Avers, Rita Wong, 2019-10-24 Selected for Doody's Core Titles 2024 in Physical Therapy Offering a comprehensive look at physical therapy science and practice Guccione's Geriatric Physical Therapy 4th Edition is a perfect resource for both students and practitioners alike Year after year this text is recommended as the primary preparatory resource for the Geriatric Physical Therapy Specialization exam And this new fourth edition only gets better Content is thoroughly revised to keep you up to date on the latest geriatric physical therapy protocols and conditions Five new chapters are added to this edition to help you learn how to better manage common orthopedic cardiopulmonary and neurologic conditions become familiar with functional outcomes and assessments and better understand the psychosocial aspects of aging In all you can rely on Guccione's Geriatric Physical Therapy to help you effectively care for today's aging

patient population Comprehensive coverage of geriatric physical therapy prepares students and clinicians to provide thoughtful evidence based care for aging patients Combination of foundational knowledge and clinically relevant information provides a meaningful background in how to effectively manage geriatric disorders Updated information reflects the most recent and relevant information on the Geriatric Clinical Specialty Exam Standard APTA terminology prepares students for terms they will hear in practice Expert authorship ensures all information is authoritative current and clinically accurate NEW Thoroughly revised and updated content across all chapters keeps students up to date with the latest geriatric physical therapy protocols and conditions NEW References located at the end of each chapter point students toward credible external sources for further information NEW Treatment chapters guide students in managing common conditions in orthopedics cardiopulmonary and neurology NEW Chapter on functional outcomes and assessment lists relevant scores for the most frequently used tests NEW Chapter on psychosocial aspects of aging provides a well rounded view of the social and mental conditions commonly affecting geriatric patients NEW Chapter on frailty covers a wide variety of interventions to optimize treatment NEW Enhanced eBook version is included with print purchase allowing students to access all of the text figures and references from the book on a variety of devices

**Evidence-Based Physical Therapy for the Pelvic Floor** Kari Bø, Bary Berghmans, Siv Mørkved, Marijke Van Kampen, 2014-11-04 Bridging the gap between evidence based research and clinical practice Physical Therapy for the Pelvic Floor has become an invaluable resource to practitioners treating patients with disorders of the pelvic floor The second edition is now presented in a full colour hardback format encompassing the wealth of new research in this area which has emerged in recent years Kari B and her team focus on the evidence from basic studies theories or rationales for treatment and RCTs appraisal of effectiveness to the implications of these for clinical practice while also covering pelvic floor dysfunction in specific groups including men children elite athletes the elderly pregnant women and those with neurological diseases Crucially recommendations on how to start continue and progress treatment are also given with detailed treatment strategies around pelvic floor muscle training biofeedback and electrical stimulation aligns scientific research with clinical practice detailed treatment strategies innovative practice guidelines supported by a sound evidence base colour illustrations of pelvic floor anatomy and related neuroanatomy neurophysiology MRIs and ultrasounds showing normal and dysfunctional pelvic floor incorporates vital new research and material uses key summary boxes throughout new edition to highlight quick reference points now in full colour throughout and a hardback format

*Mechanical Design and Simulation: Exploring Innovations for the Future* Duc Truong Pham, Yaguo Lei, Yanshan Lou, 2025-01-23 This book is an open access publication This book presents innovative strategies and cutting edge research at the intersection of mechanical engineering and simulation technologies Aimed at addressing the current challenges and limitations in mechanical design this book presents an array of advanced methodologies and tools that promise to revolutionize the field From integrating artificial intelligence and machine learning for design optimization to leveraging the



latest in finite element analysis for enhanced stress modelling the proceedings highlight the pivotal role of simulation in pushing the boundaries of what is possible in mechanical design With a strong emphasis on sustainable design practices and the utilization of additive manufacturing this collection not only serves as an indispensable resource for engineers researchers and students but also marks a significant step forward in bridging the gap between traditional mechanical design principles and modern computational innovations

**Psychosocial Advances in Neuro-Oncology** Tamara Ownsworth,Suzanne Chambers,Haryana Dhillon,2016-02-12 Neuro oncology is a rapidly growing field concerned with scientific developments and clinical applications related to neuroscience neuropsychology cancer and oncology Neuro oncological disorders include cancers that directly affect the central nervous system CNS such as brain tumours and brain metastases and non CNS cancers with treatments that produce neurocognitive impairment To date the biological mechanisms and neuropsychological effects of brain tumour and cancer have been the dominant focus in neuro oncology literature In terms of psychosocial aspects of care people s understanding of their diagnosis and symptoms and how they cope with their illness has a major influence on their emotional well being and quality of life The development and evaluation of psychological and supportive care interventions for people with brain tumour is an area of emerging research and of high interest to health professionals working in the field This Research Topic aims to enhance understanding of the psychological and social consequences of brain tumour and other cancers impacting neurocognitive function It also aims to showcase new developments in assessment and psychosocial intervention approaches

*Handbook of Effective Inclusive Elementary Schools* James McLeskey,Fred Spooner,Bob Algozzine,Nancy, L. Waldron,2021-10-26 Now in its Second Edition this seminal handbook offers a comprehensive exploration of how students with disabilities might be provided classrooms and schools that are both inclusive and effective With an enhanced focus on the elementary level this new edition provides readers with a richer more holistic understanding of how inclusive settings operate in K 5 featuring expanded chapters on principal engagement teacher preparation district level support school based improvement practices and more Fully revised and updated to reflect changes in the field each chapter synthesizes the research explores if and how this knowledge is currently used in schools and addresses the implications for practice and directions for future research

Sensory Neuroscience Editor's Pick 2021 Jae Kun Shim,2021-08-09

*Psychology for the Common Good: The Interdependence of Citizenship, Justice, and Well-being across the Globe.* Ottar Ness,Salvatore Di Martino,Isaac Prilleltensky,2022-11-10

Delve into the emotional tapestry woven by in Experience **Grade1life Sdciences Term3 Control Test2014** . This ebook, available for download in a PDF format ( Download in PDF: \*), is more than just words on a page; itis a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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