



GRADE 12 LIFE SCIENCES MARCH TEST

SECTION A

QUESTION 1

1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1.1-1.1.4) on your answer sheet, for example 1.1.5. D.

1.1.1 Base that pairs with Uracil.

- A Adenine
- B Cytosine
- C Guanine
- D Thymine

1.1.2 Bond found between amino acids in a protein.

- A Tripeptide bond
- B Polypeptide bond
- C Phosphodiester bond
- D Hydrogen bond

1.1.3 THREE adjacent bases found on a DNA or m-RNA molecule...

- A Anticodon
- B Codon
- C Replicon
- D Replicon

1.1.4 Structure where sperm matures.

- A Testis
- B Epididymis
- C Vas deferens
- D Seminal vesicle

[1x2=2]

1.2 Give the correct BIOLOGICAL TERM for each of the following statements. Write the name of the biological structure in CAPITAL LETTERS.

- 1.1 The process by which a cell divides to form two daughter cells.
- 1.2 The single strand of DNA that is complementary to the template strand.
- 1.3 The type of nucleic acid that occurs as a single strand.
- 1.4 The single strand of DNA that is complementary to the template strand.
- 1.5 The natural structure of a DNA molecule.
- 1.6 The process by which a cell divides to form two daughter cells.

[1x6=6]

1.3 Indicate whether each of the statements in COLUMN I applies to A ONLY, B ONLY, BOTH A and B or NONE of the items in COLUMN II. Write **A** ONLY, B ONLY, BOTH A and B or NONE next to the QUESTION NUMBER (1.3.1-1.3.3).

	COLUMN I	COLUMN II
1.3.1	Released by the pituitary gland	A. Progesterone B. Oestrogen
1.3.2	Thymine is used.	A. Replication of DNA B. Transcription of DNA
1.3.3	Contains RNA	A. Mitochondrion B. Nucleolus

[3x2=6]

(TOTAL SECTION A: 28)

Life Sciences Controlled Test 2014 Paper Grade 11

Marquis Who's Who



Life Sciences Controlled Test 2014 Paper Grade 11:

Innovative Materials for Construction Mariaenrica Frigione, José Barroso de Aguiar, 2021-05-05 Most of the typical materials employed in today's constructions present limitations especially concerning their durability in either common or severe environmental conditions and their impact on the environment In response to these issues academic and industrial efforts around the world have been devoted to developing new smart materials that can provide efficient alternatives improve the energy efficiency of buildings or can upgrade repair or protect existing infrastructures Different and wide technological innovations are therefore quickly fostering advancements in the field of construction materials A new generation of materials bricks cement coatings concrete FRP glass masonry mortars nano materials PCM polymers steel wood etc is gaining a prominent position in modern building technology since they can overcome various limits and flaws of conventional materials employed in constructions without neglecting the smart applications of pioneering materials in ancient constructions and historic buildings Even though the adoption of innovative materials in the construction field has been a successful route in achieving enhanced performance or even new and unexpected characteristics some issues have not been completely solved On top of them the cost performance ratio of novel solutions since their introduction must be convenient without compromising quality Other concerns are related to their sustainability with eco friendly options possibly exploiting recycled materials or by products from other productions being the most desirable solution Finally the use of materials or systems that are unconventional in this field raises the need to update or develop new specifications and standards This special issue aims at providing a platform for discussing open issues challenges and achievements related to innovative materials proposed for the construction industry

Nature-based learning and development: Maximizing the returns on investment,

volume II Catherine Jordan, Andrea Faber Taylor, Nancy M. Wells, Ming Kuo, Ulrich Dettweiler, 2023-11-06 [Journal of the National Cancer Institute](#), 1990 [Biobanks as Essential Tools for Translational Research: The Belgian Landscape](#) Sofie J. S. Bekaert, Annelies Debucquoy, Veronique T'Joel, Laurent Georges Dollé, Loes Linsen, 2020-09-17 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

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 **Executive Function and Education** Mariëtte Huizinga, Dieter Baeyens, Jacob A. Burack, 2018-09-21 Executive function is an umbrella term for various cognitive processes that are central to goal directed behavior thoughts and emotions These processes are especially important in novel or

demanding situations which require a rapid and flexible adjustment of behavior to the changing demands of the environment. The development of executive function relies on the maturation of associated brain regions as well as on stimulation in the child's social contexts especially the home and school. Over the past decade the term executive function has become a buzzword in the field of education as both researchers and educators underscore the importance of skills like goal setting, planning and organizing in academic success. Accordingly in initiating this Research Topic and eBook our goal was to provide a forum for state of the art theoretical and empirical work on this that both facilitates communication among researchers from diverse fields and provides a theoretically sound source of information for educators. The contributors to this volume who hail from several different countries in Europe and North America have certainly accomplished this goal in their nuanced and cutting edge depictions of the complex links among various executive function components and educational success.

Canadian Journal of Forest Research, 2015 Health Promotion in the Universities and Other Educational Settings Miguel Corbí, Antoni Aguilo, Carmen Gallardo Pino, Mario Del Líbano, Carlos Emanuel Rodriguez-Diaz, Hiram V. Arroyo Acevedo, 2025-09-17. The promotion of health in universities is of great importance as it allows for the encouragement of healthy lifestyles and the prevention of diseases among students, teaching staff and administrative personnel. The university is a conducive environment for the promotion of healthy habits since firstly it is usually the moment when the students make decisions under their responsibility and secondly it is a place where academic sports and social activities take place so it is also an ideal moment to promote changes that can be transferred to society and the rest of the individual's life. Health promotion in universities can cover several areas such as healthy eating, physical exercise, prevention of addictions, emotional and social mental health among others. It can also involve the entire university community from students to administrative and teaching staff. In the case of students it is essential as it is a period of change and habit formation and the fact that they will be the future decision makers of society.

Security Owner's Stock Guide Standard and Poor's Corporation, 1971 International Aerospace Abstracts, 1999 U. S. News Ultimate College Guide Anne McGrath, 2006. Provides guidance for choosing a school, getting accepted and finding financial aid and profiles over 1 400 colleges and universities in the U.S.

Metals Abstracts, 1994 **Cumulative Author Index to Psychological Abstracts**, 1975

U. S. News and World Report Ultimate College Guide U.S. News & World Report (Firm), 2007-10. In the simplest of terms leadership is about influencing people to achieve an objective that is important to the leader, the group and the organization. It is the human element leading, motivating and inspiring particularly during times of crisis, chaos and complexity when directives, policy statements and communiques have little effect on cold, exhausted and stressed followers. Strong leadership encourages subordinates to go beyond the obligation to obey and commit to the mission in a way that maximizes their potential. The Military Leadership Handbook is a concise and complete manual that identifies, describes and explains all those concepts, components and ideas that deal with or directly relate to military leadership. The book is a comprehensive

compendium that focuses on among other subjects cohesion command cultural intelligence discipline fear and trust this applied manual provides invaluable assistance to anyone who wishes to acquire a better understanding of both the theory and application of military leadership **The New York Times Index** ,2008 **Subject Guide to Books in Print** ,1991

Who's Who in the World, 1995 Marquis Who's Who,1995-12 This single volume affords instant access to more than 35 000 individual biographies of the people whose activities are shaping today s world Among those profiled are prominent government figures high ranking military officers leaders of the largest corporations in each country heads of religious organizations pioneers in science the arts many more *Life Sciences* J. Grogan,2017 **Understanding Life Sciences** T. Isaac,2006 **Study and Master Life Sciences Grade 11 CAPS Teacher's File** Annemarie Gebhardt,Peter Preethlall,Sagie Pillay,Bridget Farham,2012-09-07 Study Master Life Sciences Grade 11 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement CAPS This new and easy to use course helps learners to master essential content and skills in Life Sciences The innovative Teacher s File includes guidance on the teaching of each lesson for the year answers to all activities in the Learner s Book assessment guidelines photocopiable templates and resources for the teacher

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