



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 Uterine tube

(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 produce two daughter cells.
- 1.2 The single strand of DNA carrying information to produce proteins in a cell.
- 1.3 The type of nucleic acid that occurs as a single strand.
- 1.4 The single strand of DNA that carries information to produce proteins.
- 1.5 The natural structure of a DNA molecule.
- 1.6 The process by which a cell divides to produce 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. Mitochondria B. Nucleus

(3x2=6)

(TOTAL SECTION A: 28)

Life Sciences March 2014 Grade 12 Question Paper

L Darling-Hammond



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Interest in Mathematics and Science Learning Ann Renninger, Martina Nieswandt, Suzanne Hidi, 2015-04-19 Interest in Mathematics and Science Learning edited by K Ann Renninger Martin Nieswandt and Suzanne Hidi is the first volume to assemble findings on the role of interest in mathematics and science learning As the contributors illuminate across the volume s 22 chapters interest provides a critical bridge between cognition and affect in learning and development This volume will be useful to educators researchers and policy makers especially those whose focus is mathematics science and technology education

Alternative Models of Addiction Hanna Pickard, Serge H. Ahmed, Bennett Foddy, 2015-12-07 For much of the 20th century theories of addictive behaviour and motivation were polarized between two models The first model viewed addiction as a moral failure for which addicts are rightly held responsible and judged accordingly The second model in contrast viewed addiction as a specific brain disease caused by neurobiological adaptations occurring in response to chronic drug or alcohol use and over which addicts have no choice or control As our capacity to observe neurobiological phenomena improved the second model became scientific orthodoxy increasingly dominating addiction research and informing public understandings of addiction More recently however a dissenting view has emerged within addiction research based partly on new scientific research and partly on progress in philosophical and psychological understandings of relevant mental phenomena This view does not revert to treating addiction as a moral failure but nonetheless holds that addictive behaviour is fundamentally motivated by choice and subject to at least a degree of voluntary control On this alternative model of addiction addictive behaviour is an instrumental means to ends that are desired by the individual although much controversy exists with respect to the rationality or irrationality of these ends the degree and nature of the voluntary control of addictive behaviour and motivation the explanation of the difference between addictive and non addictive behaviour and motivation and lastly the extent to which addictive behaviour and motivation is correctly characterised as pathological or diseased This research topic includes papers in the traditions of neuroscience psychology philosophy law and social science that explore alternative understandings of addiction

Leading Modern Learning Jay McTighe, Greg Curtis, 2019-07-08 Redesign education to meet the needs of 21st century students In the second edition of Leading Modern Learning authors Jay McTighe and Greg Curtis outline a reworked version of their blueprint for major education reform More than a simple refresh the latest edition incorporates new insights experiences and tools that will help you implement modern learning practices in your department school or district Use this book to guide education and curriculum reform and empower modern learners Understand the necessity and value of education reform and updating school curriculum for the 21st century classroom Learn how to use a blueprint for your vision of learning mission and curriculum development to establish mission clarity and effective instruction and assessment practices Explore systems thinking and frameworks for backward design that can be utilized by school leadership to develop action plans and guide

school curriculum reform for modern learning Read an all new chapter on change management and strategic planning for district and school leadership as well as new Notes From the Field which highlight how to avoid potential missteps and misunderstandings that inhibit progress Utilize the appendices and free reproducibles to further your understanding of education reform curriculum development and school leadership for modern learning A joint publication of ASCD and Solution Tree Contents Foreword Introduction Chapter 1 Creating a Futures Oriented Vision and Mission Chapter 2 From Mission to Action Chapter 3 Curriculum for Modern Learning Chapter 4 An Assessment System for Modern Learning Chapter 5 Instruction for Modern Learning Chapter 6 A Reporting System for Modern Learning Chapter 7 Leadership for Modern Learning Appendix A Sources for Futures Oriented Thinking Tools and Processes Appendix B Sample Sources and Performance Indicators for 21st Century Skills Appendix C Sample Map of Cornerstone Performance Tasks and Transfer Goals References and Resources Index

Health Informatics - E-Book Ramona Nelson, Nancy Stagg, 2016-12-08 Awarded second place in the 2017 AJN Book of the Year Awards in the Information Technology category See how information technology intersects with health care Health Informatics An Interprofessional Approach 2nd Edition prepares you for success in today's technology filled healthcare practice Concise coverage includes information systems and applications such as electronic health records clinical decision support telehealth ePatients and social media tools as well as system implementation New to this edition are topics including data science and analytics mHealth principles of project management and contract negotiations Written by expert informatics educators Ramona Nelson and Nancy Stagg this edition enhances the book that won a 2013 American Journal of Nursing Book of the Year award Experts from a wide range of health disciplines cover the latest on the interprofessional aspects of informatics a key Quality and Safety Education for Nurses QSEN initiative and a growing specialty area in nursing Case studies encourage higher level thinking about how concepts apply to real world nursing practice Discussion questions challenge you to think critically and to visualize the future of health informatics Objectives key terms and an abstract at the beginning of each chapter provide an overview of what you will learn Conclusion and Future Directions section at the end of each chapter describes how informatics will continue to evolve as healthcare moves to an interprofessional foundation NEW Updated chapters reflect the current and evolving practice of health informatics using real life healthcare examples to show how informatics applies to a wide range of topics and issues NEW mHealth chapter discusses the use of mobile technology a new method of health delivery especially for urban or under served populations and describes the changing levels of responsibility for both patients and providers NEW Data Science and Analytics in Healthcare chapter shows how Big Data as well as analytics using data mining and knowledge discovery techniques applies to healthcare NEW Project Management Principles chapter discusses proven project management tools and techniques for coordinating all types of health informatics related projects NEW Contract Negotiations chapter describes strategic methods and tips for negotiating a contract with a healthcare IT vendor NEW Legal

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NEW HITECH Act chapter explains the regulations relating to health informatics in the Health Information Technology for
Education and Clinical Health Act as well as the Meaningful Use and Medicare Access CHIP Reauthorization Act of 2015

Women's Under-Representation in the Engineering and Computing Professions: Fresh Perspectives on a Complex Problem Kathleen Buse, Catherine Hill, Romila Singh, 2018-06-21 Understanding the many complexities that define gender inequality has been described by researchers as a grand challenge Novel insights innovation a broader community to conduct research and to ascertain effective interventions are essential in the challenge to create organizations that are gender equal As such this Research Topic in Frontiers in Psychology addresses the under representation of women in engineering and computing as a complex but solvable problem This Research Topic seeks to inform the global community about advances in understanding the under representation of women in engineering and computing with a focus on what enables change Further this Topic will promote fresh perspectives innovative methodologies and mixed method approaches important to accelerating the pace of change Journal of the National Cancer Institute ,1990 The United States Army and Navy Journal and Gazette of the Regular and Volunteer Forces ,1893 *The National Stockman and Farmer* ,1922

Cumulative Author Index to Psychological Abstracts ,1978 **Country Life** ,1959 *Engineered Materials Abstracts* ,1986-10 *The Publishers Weekly* ,1974-07 **Normal Instructor** ,1930 **Normal Instructor and Teachers World** ,1930 **Minneapolis City Directory** ,1938 **The Continuing Study of Newspaper Reading** Advertising Research Foundation,1943 **Life Sciences** South Africa. Department of Education,2010 *Study and Master Life Sciences Grade 12 CAPS Study Guide* Gonasagaren S. Pillay, Prithum Preethlall, Bridget Farham, Annemarie Gebhardt, 2013-12-05 **SET Life Science: Solved Exam Questions** Kailash Choudhary, D. Sondge, R.P. Saran, N. Soni, 2017-12-01 The present book SET Life Science Solved Papers is specially developed for the aspirants of SET Life Sciences Examinations This book includes previous solved papers SET Life Science papers of Maharashtra Andhra Pradesh Karnataka Tamil Nadu Kerala Gujarat and Rajasthan Main objective of this book is to develop confidence among the candidates appearing for SET examination in the field of Life Sciences Both fundamental and practical aspects of the subject have been covered by solved questions This book meets the challenging requirements of CSIR NET GATE IARI BARC and Ph D entrance of various Indian universities **Life Sciences** Helena Fouché, 2011

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web vawt wind direction hawt the two configurations have instantly distinguishable rotor designs each with its own favourable characteristics 1 the discontinued mainstream development of the vawt can be attributed to a low tip speed ratio and difficulty in controlling rotor speed

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web design your wind turbine blades using our software match blades to your existing generators rpm and power output customize the blade radius number and tsr to find power output for your average wind speed purchase plans for turbine blades after your design is complete

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web the tip speed ratio λ or tsr for wind turbines is the ratio between the tangential speed of the tip of a blade and the actual speed of the wind the tip speed ratio is related to efficiency with the optimum varying with blade design higher tip speeds result in higher noise levels and require stronger blades due to larger centrifugal forces the tip speed

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