



## 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 Hydrophobic bond
- B Hydrogen bond
- C Phosphodiester bond
- D Ionic bond

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

- A Anticodon
- B Codon
- C Acceptor
- D Peptide

1.1.4 Structure where sperm matures.

- A Testis
- B Epididymus
- C Vas deferens
- D Uterine tube

[x2=6]

1.2 Give the correct **BIOLOGICAL TERM** for each of the following statements. Write the correct term next to the question number (1.2.1-1.2.6).

- 1.1 The main structure for photosynthesis.
- 1.2 The study of how organisms change over time, from the study of fossils.
- 1.3 The type of nucleic acid that occurs as a single strand.
- 1.4 The organelle of a prokaryote where most of its metabolism occurs.
- 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/Estrogen
1.3.2	Thymine is used.	A. Replication of genetic material B. The initial transcription of DNA into mRNA
1.3.3	Contains RNA	A. Mitochondria B. Vacuole

[3x2=6]

(TOTAL SECTION A: 28)

# Life Science Control Test March Paper 2014

**EW Minium**

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## **Life Science Control Test March Paper 2014:**

**Social Entrepreneurship in the Middle East** Dima Jamali, Alessandro Lanteri, 2016-04-29 This two volume book unveils trends strengths weaknesses and overall dynamics and implications of social entrepreneurship in the Middle East region whilst identifying both opportunities and threats facing social entrepreneurship and supplements through a wealth of insights and examples inspired from practice and current applications

**New Paradigms in Ergonomics** Neville A. Stanton, Paul M. Salmon, Guy Walker, 2020-04-28 The systems in which we work continue to evolve creating emergent problems and often strengthening intractable issues In order to remain relevant and impactful the discipline of ergonomics needs its paradigms to evolve too The aim of this book is to provide researchers and practitioners with new paradigms in the form of ideas concepts theories methods practices and values The chapters take the reader on a journey through underlying theories new ways to apply those theories and emerging domains in which ergonomics is expected to play a greater role Readers of this book will be inspired by these new paradigms in ergonomics and seek to push the boundaries even further The lifeblood of the science depends on continual evolution and developments to take on the challenges we face in complex sociotechnical systems design and evaluation Perhaps the most significant take home message from this book is the demonstration of how theory maps onto practice As such the only remaining paradigm shift is for these ideas concepts methods and practices to be taken up more widely and the discipline advanced until the next paradigm shift occurs The chapters were originally published as a special issue in the journal Ergonomics

**Order and Conflict in Public Space** Mattias De Backer, Lucas Melgaço, Georgiana Varna, Francesca Menichelli, 2016-05-20 Which public and whose space The understanding of public space as an arena where individuals can claim full use and access hides a reality of constant negotiation conflict and surveillance This collection uses case studies concerning the management use and transgression of public space to invite reflection on the way in which everyday social interaction is framed and shaped by the physical environment and vice versa International experts from fields including geography criminology sociology and urban studies come together to debate the concepts of order and conflict in public space This book is divided into two parts spaces of control and spaces of transgression Section I focuses on formal and informal surveillance and the politics of control using case studies to compare strategies in spaces including Olympic cities luxury skyscrapers residential neighbourhoods and shopping malls Section II focuses on transgressive or deviant behaviour in public spaces with case studies examining behaviour in nightlife districts governance of homelessness boy racer culture and abortion protests The epilogue concludes the book with an exploration of possible future avenues for research on public space and a critical appraisal of the concept of public space itself This interdisciplinary collection will be of interest to students researchers and professionals in the areas of criminology sociology surveillance studies human and social geography and urban studies and planning

**Fundamentals of HIV Medicine 2021** W. David Hardy, 2021-06-08 Fundamentals of HIV Medicine 2021 is the AAHIVM s end to end clinical

resource for the treatment of individuals with HIV AIDS Now updated with HIV workforce strains and PrEP newly emerging antiretroviral treatment options and the evolving effects of COVID 19 on HIV care *Space Station Systems* ,1986

**Fundamentals of HIV Medicine 2025** ,2025-07-17 Updated to reflect recent advancements Fundamentals of HIV Medicine 2025 offers readers the benefit of over 40 years of collective HIV medical knowledge and experience caring for people affected by HIV This clear and coherent textbook delves into antiretroviral therapies including long acting injectables and presents insights into holistic patient management The new edition offers continuing education for all healthcare professionals involved in HIV care Lessons in Environmental Microbiology Roger Tim Haug,2019-07-17 Lessons in Environmental Microbiology provides an understanding of the microbial processes used in the environmental engineering and science fields It examines both basic theory as well as the latest advancements in practical applications including nutrient removal and recovery methanogenesis suspended growth bioreactors and more The information is presented in a very user friendly manner it is not assumed that readers are already experts in the field It also offers a brief history of how microbiology relates to sanitary practice and examines the lessons learned from the great epidemics of the past Numerous worked example problems are presented in every chapter **Improving organic crop cultivation** Prof. Ulrich Köpke,2018-11-30 Reviews key advances and best practice in cultivation techniques across the value chain of organic farming Discusses ways of monitoring and improving the environmental impact of organic crop production Particular focus on ways of supporting organic farming in the developing world *Technology for Large Space Systems* ,1987 **NASA SP.** ,1962 **The College Handbook** ,1987 **Standard & Poor's Creditweek** ,1989 **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 **The Journal of Biolaw & Business** ,2004 Materials Research Abstracts Library of Congress. Science and Technology Division,1962 **Security Owner's Stock Guide** ,1972 **Government Reports Announcements & Index** ,1991 **Population Index Bibliography** Princeton University. Office of Population Research,1984 **Experiment Station Report** ,1949 **A Report of the Iowa Agricultural Experiment Station** Iowa Agriculture and Home Economics Experiment Station,1951

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