



## 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 (1.1-1.4) on your answer sheet, for example 1.1 B (2)

1.1.1 Base that pairs with Uracil

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

1.1.2 Bond found between amino acids in a protein

- A Hydrogen bond
- B Ionic bond
- C Peptide bond
- D Disulfide bond

1.1.3 THREE adjacent bases found in a DNA or mRNA molecule

- A Anticodon
- B Gene
- C Codon
- D Polypeptide

1.1.4 Structure where sperm mature

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

(4/4)

1.2 Give the correct BIOLOGICAL TERM for each of the following statements (2/1 + 2/1 + 2/1 + 2/1 + 2/1 + 2/1 = 12)

- 1.2.1 The concentration of sucrose in a cell
- 1.2.2 Energy released from the breakdown of glucose
- 1.2.3 The type of mutation with the source as a single strand
- 1.2.4 The sugar component of nucleoside triphosphate
- 1.2.5 The natural structure of a DNA molecule
- 1.2.6 The type of mutation with the source as a chromosome

(6/6)

1.3 Indicate whether each of the statements in COLUMN I applies to a DNA or RNA molecule. Write 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 (1.3-1.5) (2)

	COLUMN I	COLUMN II
1.3.1	Repaired by the polymerase	A. Thymine B. Adenine C. Guanine D. Cytosine
1.3.2	Hydrogen bond	A. Hydrogen bond B. Ionic bond C. Peptide bond D. Disulfide bond
1.3.3	Gene	A. Testis B. Epididymus

(2/2)

(TOTAL SECTION A: 20)

# 19 2014 Life Science Controlled Paper

**David Baud**



## 19 2014 Life Science Controlled Paper:

**Collected papers** Clinton Hart Merriam,1919 *Scientific and Technical Aerospace Reports* ,1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Paper** ,1916 **Control and Treatment of Landfill Leachate for Sanitary Waste Disposal** Aziz, Hamidi Abdul,Amr, Salem Abu,2015-12-02 Municipal solid waste MSW disposal is an ever increasing problem in many parts of the world especially in developing countries To date landfilling is still the preferred option for the disposal and management of MSW due to its low cost operation While this solution is advantageous from a cost perspective it introduces a high level of potential pollutants which can be detrimental to the local environment Control and Treatment of Landfill Leachate for Sanitary Waste Disposal presents research based insights and solutions for the proper management and treatment of landfill leachate Highlighting relevant topics on emerging technologies and treatment innovations for minimizing the environmental hazards of waste disposal this innovative publication contributes to filling in many of the gaps that exist in the current literature available on leachate treatment Waste authorities solid waste management companies landfill operators legislators environmentalists graduate students and researchers will find this publication beneficial to their professional and academic interests in the area of waste treatment and management **The Shipley collection of scientific papers** ,1918 **Paper Makers Monthly Journal** ,1916 **Readers' Guide to Periodical Literature** ,1922 An author subject index to selected general interest periodicals of reference value in libraries

*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 **Aerospace Medicine and Biology** ,1991 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA **Fundamentals of Space Life**

**Sciences** Susanne Elaine Churchill,1997      **American Men of Science** James McKeen Cattell,Jaques Cattell,1927      **H,**  
**Natural science. H\*, Medicine and surgery. I, Arts and trades. 1926** William Swan Sonnenschein,1926      **Industrial**  
**Arts Index** ,1923      **Fourth Estate** ,1925      *Bibliography Related to Human Factors System Program* Richard J.  
Potocko,1964      **A Checklist of Official Publications of the State of New York** New York State Library,1989      **Social**  
**Sciences and Humanities Index** ,1916      *Large Space Structures & Systems in the Space Station Era* ,1990  
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**Control in the United States** Jenks Cameron,1928

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of selenium coated by a thin layer of gold these cells converted only one percent of the sun's energy into electricity in 1904 another scientist named wilhelm hallwachs discovered another combination copper and cuprous oxide

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web it all began with edmond becquerel a young physicist working in france who in 1839 observed and discovered the photovoltaic effect a process that produces a voltage or electric current when

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web in theory solar energy was used by humans as early as the 7th century b c when history tells us that humans used sunlight to light fires with magnifying glass materials later in the 3rd century b c the greeks and romans were known to harness solar power with mirrors to light torches for religious ceremonies

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web 1800 s light and electricity in the first chapter of solar history was the discovery that light was related to electricity the first solar cells or photocells did not produce much power and used an element called selenium se

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