



GRADE 11 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 (1.1.1-1.1.5) on your answer sheet, for example 1.1.B. D.

1.1.1 Which of the following micro-organisms act as decomposers in ecosystems?

- (i) *Escherichia*
 - (ii) *Paramecium*
 - (iii) *Penicillium*
 - (iv) *Trichoderma*
- A (i) and (ii)
B (ii) and (iv)
C (i) and (iii)
D (iii) and (iv)

1.1.2 Malaria is spread by:

- A *Plasmodium vivax* mosquito
- B *Anopheles gambiae*
- C *Culex quinquefasciatus*
- D *Aedes albopictus*

1.1.3 Protists are unlike bacteria in that they...

- A have prokaryotic cells
- B are unicellular
- C are produced by binary fission
- D are autotrophic

1.1.4 Which statement best describes the relationship between a parasite and its host?

- A The parasite benefits, the host benefits
- B The parasite benefits, the host is harmed
- C Both host and parasite benefit
- D The parasite benefits, the host is unaffected

1.1.5 The following statements about HIV are NOT true:

- (i) It can be passed to a child from its mother during pregnancy or at birth
 - (ii) It can be passed to a child from its mother during breastfeeding
 - (iii) It can be passed to a child from its mother during sexual intercourse
 - (iv) The only prevention of HIV infection is the use of condoms
- A (i) and (ii)
B (ii) and (iii)
C (i) only
D (iii) and (iv)

[5x2=10]

1.2 Give the correct BIOLOGICAL TERM for each of the following descriptions. Write only the correct TERM next to the QUESTION NUMBER (1.2.1-1.2.4) on your answer sheet.

1.2.1 A bacterium which kills the host's cells and destroys them.

1.2.2 A plant that grows in a marshy area.

1.2.3 The production of a new individual from a single parent organism.

1.2.4 Using living organisms to control harmful populations.

(4)

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 Presence of a slime capsule and well-structured nucleus	<i>Penicillium</i> <i>Trichoderma</i>
1.3.2 A disease caused by fungi	<i>Trichoderma</i> <i>Penicillium</i>
1.3.3 Binary fission is the asexual production of...	<i>Penicillium</i> <i>Trichoderma</i>

[3x2=6]

SECTION A: [20]

Gauteng Life Sciences Paper 1 Grade 11 2014

Malcolm de Roubaix



Gauteng Life Sciences Paper 1 Grade 11 2014:

Responsible Reproductive Choice in the 21st Century Malcolm de Roubaix, 2023-01-05 This book systematically traces the development significance and implications of female reproductive choice Paramount is the right to safe termination of pregnancy TOP In the USA these rights are under threat after the reversal of Roe v Wade 1973 confirming the eternally contested nature of the pro life pro choice standoff The approach is unique and from all angles historical social emotional and legal South African experience is evaluated against a global backdrop Arguing from an ethics of responsibility the book presents a justified balanced rational and moderate position on the moral acceptability of TOP It proposes that the morality TOP be evaluated by balancing inherent foetal moral significance against contingent potentiality context and circumstance that may determine foetal development TOP is a choice a woman faces with each pregnancy It always has moral implications exclusive to the life of the woman So too do continued pregnancy and parenthood but these are of greater magnitude and duration

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noise canceller to eliminate intense background noise of high and low frequency from a desired signal

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web the c code is our program for implementation of noise cancellation on a texas instruments c6x evm the actual lms algorithm is implemented in the serialportrcvusr function the surrounding code handles a d d a and i o

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web sep 2 2015 the normalized least mean square algorithm is used in digital filtering it basically tries to imitate an unknown filter so their difference which is considered the error tends to zero the factor of convergence is that the error will start very high and with the continuous run of the algorithm it will be smaller

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web nov 19 2015 the jo nlms algorithm requires the estimation of three main parameters i.e. σ_x^2 , σ_v^2 and σ_w^2 the first one can be easily evaluated as in the nlms algorithm i.e. $\hat{\sigma}_x^2 = \frac{1}{N} \sum_{n=1}^N x(n)^2$

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web noise cancellation using adaptive filter algorithms i.e. least mean square lms algorithm in the lms algorithm the coefficients are adjusted from sample to sample in such a way as to minimize the mean square error mse the lms is based on the steepest descent algorithm where the weight vector is updated from

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web the nlms is extension of lms filter see least mean square lms for explanation of the algorithm behind the extension is based on normalization of learning rate the learning rate μ is replaced by learning rate η_k η_k normalized with every new sample according to input power as follows

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