



## 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 None of the above

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

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 human heart and liver.

1.2.2 A plant which has a taproot and a fibrous root.

1.2.3 The production of a new cell from a single parent cell.

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> |
| 1.3.2 A disease caused by fungi                               | <i>Aspergillus</i> |
| 1.3.3 Binary fission is the asexual production of...          | <i>Paramecium</i>  |

[3x2=6]

SECTION A: [20]

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**Ying Liu**



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