



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 (i.e. 1.1.1-1.1.4) on your answer sheet, for example 1.1.1. D.

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. Hydrophobic bond
- C. Disulfide bond
- D. Ionic bond

1.1.3 THREE adjacent bases found in a DNA or mRNA molecule

- B. Anticodon
- B. Sense
- C. Codon
- D. Polypeptide

1.1.4 Structure where sperm matures

- A. Epididymis
- B. Vas deferens
- C. Prostate gland
- D. Seminal vesicle

(404)

- 1.2 Give the correct BIOLOGICAL TERM for each of the following statements (ONLY ONE word, TWO marks for correct spelling and 2 x 1 each)

- 1.2.1 The macromolecule that is used to build up fat
- 1.2.2 The very cellular structure in a plant cell responsible for photosynthesis
- 1.2.3 The type of mutation with that occurs as a single strand
- 1.2.4 The rough, smooth, of the nucleus is separated from the nucleoplasm
- 1.2.5 The natural structure of a DNA molecule
- 1.2.6 The type of mutation that occurs as a chromosome

(640)

- 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 (ONLY) A, ONLY; B, BOTH A and B or NONE next to the QUESTION NUMBER (i.e. 1.3.1-1.3.3).

	COLUMN I	COLUMN II
1.3.1	Released by the plasma pump	A. Prokaryotic B. Eukaryotic animal cells
1.3.2	Thymine is used	A. Eukaryotic animal cells B. Eukaryotic plant cells C. Prokaryotic cells
1.3.3	Contains RNA	A. Mitochondrion B. Nucleolus

(640)

(TOTAL SECTION A: 20)

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