



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 Tripeptide bond
B Polypeptide bond
C Phosphodiester bond
D Hydrogen bond

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

A Anticodon
B Codon
C Quadruplet
D Triplet

- 1.1.4 Structure where sperm matures.

A Testis
B Epididymis
C Vas deferens
D Seminal vesicle

[1x2=2]

- 1.2 Give the correct BIOLOGICAL TERM for each of the following statements.
Write the name of the biological structure in CAPITAL LETTERS.

- 1.1 The process by which a cell divides to produce two daughter cells.
1.2 The single strand of DNA that is complementary to the template strand.
1.3 The type of nucleic acid that occurs as a single strand.
1.4 The single strand of DNA that is complementary to the template strand.
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
1.3.2	Thymine is used.	A. Replication of DNA B. Transcription of DNA
1.3.3	Contains RNA	A. Mitochondrion B. Nucleolus

[3x2=6]

(TOTAL SECTION A: 28)

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CO Houle



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web what are the coordinates of the midpoint m $\frac{4+2}{2}$ $\frac{4+2}{2}$ compare the x coordinates of a b and m compare the y coordinates of a b and m $\frac{5+2}{2}$ $\frac{2+2}{2}$ how are the coordinates of the midpoint m related to the 4 coordinates of a and b making sense of problems

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web oct 4 2015 midpoint formula the midpoint between two points p and q is the point on the line segment pq that is halfway between p and q the formula for the midpoint is where the coordinates of p are and the coordinates of q are example find the midpoint of the line segment between p 1 5 and q 4 3 solution using the formula the

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web what is the midpoint formula the formula gives the midpoint of the points $greend$ x_1 $goldd$ y_1 x_1 y_1 and $greend$ x_2 $goldd$ y_2 x_2 y_2 in the coordinate plane $\left(\frac{greend}{dfrac{x_1}{x_2}} \frac{goldd}{dfrac{y_1}{y_2}} \right)$ $2x_1$ x_2 $2y_1$ y_2

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web you can use the midpoint and distance formulas to find midpoint and distance as long as you know the coordinates of two points what is distance and midpoint the distance between two points is the length of the line segment connecting them

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web 1 use the distance formula 2 use the midpoint formula examples 1 find the distance between the points 3 7 and 4 10 2 determine whether the triangle formed by points a 2 2 b 2 1 and c 5 4 is a right triangle 3 find the midpoint of the line segment joining the points p_1 6 3 and p_2 4 2 teaching notes

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web the blue text midpoint midpoint of the points green x_1 y_1 and green x_2 y_2 is given by the following formula $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$ in this article we are going to derive this formula

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web how to find distance between two points to find distance between points $a(x_1, y_1)$ and $b(x_2, y_2)$ we use formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ example find distance between points $a(3, 4)$ and $b(1, 3)$ solution in this example we have $x_1 = 3$ $y_1 = 4$ $x_2 = 1$ $y_2 = 3$ so we have

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web 1 answer write the formula $m = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$ substitute 2 3 for x_1, y_1 and 2 2 for x_2, y_2 $m = \left(\frac{2 + 2}{2}, \frac{3 + 2}{2} \right) = (2, 2.5)$ the midpoint of the line segment ab is $m(2, 2.5)$

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web this method can be used to determine the distance between any two points in a coordinate plane and is summarized in the distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ the point that is at the same distance from two points $a(x_1, y_1)$ and $b(x_2, y_2)$ on a line is called the midpoint you

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web feb 14 2022 use the distance formula to find the distance between the points $(5, 3)$ and $(7, 2)$ solution write the distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ label the points x_1, y_1 $(5, 3)$ x_2, y_2 $(7, 2)$ and substitute $d = \sqrt{(7 - 5)^2 + (2 - 3)^2}$ simplify $d = \sqrt{2^2 + (-1)^2} = \sqrt{4 + 1} = \sqrt{5}$