



## GRADE 10 LIFE SCIENCES INARCH 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 Disulphide bond
- C Peptide bond
- D Ionic bond

1.1.3 THREE adjacent bases found in a DNA or mRNA molecule

- A Polypeptide
- B Gene
- C Codon
- D Amino acid

1.1.4 Structure where sperm mature

- A Testis
- B Epididymis
- C Prostate gland
- D Vas Deferens

(4/4)

1.2 Give the correct BIOLOGICAL TERM for each of the following statements (2/4) (1/1 = 0,5)

- 1.1 The concentration of sucrose in a solution
- 1.2 Energy released from the breakdown of glucose during cellular respiration
- 1.3 The type of mutation with the source as a single strand
- 1.4 The sugar component of ribonucleic acid
- 1.5 The natural structure of a DNA molecule
- 1.6 The sugar component of a nucleotide

(4/4)

1.2 Indicate whether each of the statements in COLUMN I applies to A, BOTH A & B, ONLY BOTH A and B or NONE of the items in COLUMN II. Write a (ONLY) A (ONLY) BOTH A and B or (NONE) next to the QUESTION NUMBER (1.2-1.3) (2)

	COLUMN I	COLUMN II
1.2.1	Released by the placenta during	A. progesterone B. oestrogen C. prolactin D. testosterone
1.2.2	Typical of a cell	A. presence of rough endoplasmic reticulum B. presence of a cell wall C. presence of a nucleus D. presence of a large central vacuole
1.2.3	Common to all	A. prokaryotes B. eukaryotes

(2/2)

(TOTAL SECTION A: 20)

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**Patrick Vollmar**



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web may 28 2020 write the balanced equation for the reaction and calculate how much  $\text{SiO}_2$  is required to produce 3.00 kg of  $\text{SiC}$  answer  $3 \text{ SiO}_2 + 3 \text{ C} \rightarrow \text{SiC} + 2 \text{ CO}$

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web gabrielle m 9 years ago i m working on chemical reactions double and single replacement on flvs now my first question for this video is how do you have 4 aluminum atoms when it says  $2\text{Al}$  subscript 2 do you just add the 2 and the subscript 2 same thing goes with the  $\text{O}_3$  i am so lost

**balancing equations and simple stoichiometry pdf scribd** - Dec 08 2022

web balancing equations and simple stoichiometry answers balance the following equations  $1 \text{ N}_2 + 3 \text{ F}_2 \rightarrow 2 \text{ NF}_3$   $2 \text{ C}_6\text{H}_{10} + 17 \text{ O}_2 \rightarrow 12 \text{ CO}_2 + 10 \text{ H}_2\text{O}$   $3 \text{ HBr} + 1 \text{ KHCO}_3 \rightarrow 1 \text{ H}_2\text{O} + 1 \text{ KBr} + 1 \text{ CO}_2$   $4 \text{ Ga} + 3 \text{ Na}_2\text{SO}_3 \rightarrow 2 \text{ Ga}_2\text{SO}_3 + 3 \text{ S} + 6 \text{ NaBr}$   $5 \text{ SnO}_2 + 2 \text{ NF}_3 \rightarrow 3 \text{ SnF}_2 + 1 \text{ N}_2\text{O}_3$

balancing chemical equations 1 practice khan academy - May 13 2023

web google classroom balance the following chemical equation  $\text{Mg} + \text{OH}^- \rightarrow \text{Mg}^{2+} + \text{OH}^-$   $\text{HCl} \rightarrow \text{HCl}$   $\text{MgCl}_2$   $\text{H}_2\text{O}$  note all reactants and products require a coefficient of at least one stuck review related articles videos or use a hint report a problem  $7 \text{ x} + 4 \text{ y} = 1$   $\theta$   $\pi$   $8 \text{ x} + 5 \text{ y} = 2$   $0 \text{ x} + 9 \text{ y} = 6$

stoichiometry article chemical reactions khan academy - Jul 15 2023

web a common type of stoichiometric relationship is the mole ratio which relates the amounts in moles of any two substances in a chemical reaction we can write a mole ratio for a pair of substances by looking at the coefficients in front of each species in

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