

GRADE 10 LIFE SCIENCES – PAPER 1: JUNE 2025

Time: 2 hours Total Marks: 120

INSTRUCTIONS AND INFORMATION:

Answer ALL the questions.

2. Write your answers clearly and in full sentences where required, Label diagrams neatly.

3. Draw a right-hand margin on each page for corrections.

4. Start each main question on a new page.

5. Number the answers correctly according to the question numbers.

Only non-programmable calculators are allowed. Rulers and coloured pencils may be used for diagrams.

(Format and mark allocation follow the official Grade 10 Life Sciences June 2025 scope.)

SECTION A (35 marks)

QUESTION 1: A variety of short questions and objective questions.

1.1 Identify the compound in each of the following lists as organic or inorganic, and give one example of its use in a living organism. (2 × 3 = 6)

- (a) Water (H₂O):_ - use:_..

- (b) Glucose (C_eH₁₂O_e): _ - use: _ .

- (c) Carbon dioxide (CO₂): _ - use: _.

1.2 Match each term in Column A with a correct phrase in Column B by writing only the letter (A-F) next to the question number. $(5 \times 1 = 5)$

Column A | Column B

(i) Mitosis | (A) When the cytoplasm divides

(ii) Interphase | (B) Phase where DNA replicates

(iii) Cytokinesis | (C) Stage where chromosomes line up at the middle

(iv) Metaphase | (D) Growth phase before mitosis

(v) Anaphase | (E) Sister chromatids are pulled apart

1.3 Define each of the following biological terms. Write only the term and its definition. (3 × 2 = 6)

- 1.3.1 Osmosis: . . .
- 1.3.2 Selectively permeable membrane: _____.
- 1.3.3 Eukaryotic cell: _____

1.4 Study the set-up and results of the investigation below, then answer the questions that follow.

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