KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

GRADE 9 — END OF TERM 2 EXAMINATION 2026

INTEGRATED SCIENCE

Theory — Paper 1

KJSEA 905/1

TIME: 1 Hour 40 Minutes

Candidate's Name		**Adm Number**	
School Name		**School Code**	
Candidate's Signature		**Date**	

1. Section A: 30 Multiple Choice questions (30 marks).

2. Section B: Structured questions (40 marks).

3. Use non-programmable calculators where necessary.

SECTION A: (30 Marks)

1. Gregor Mendel's Law of Segregation states that

A. Offspring inherit characteristics from only one parent B. Alleles for a trait separate during gamete formation so each gamete carries only one allele C. Dominant alleles always mask recessive alleles D. Two genes on the same chromosome are always inherited together

2. A heterozygous tall plant (Tt) is crossed with a short plant (tt). The expected phenotypic ratio of the offspring is

A. 3 tall : 1 short B. 1 tall : 1 short C. All tall D. All short

3. Which of the following is an example of a sex-linked genetic disorder?

A. Sickle cell anaemia B. Down syndrome C. Colour blindness D. Albinism

4. The process by which species change over time through natural selection is called

A. Adaptation B. Mutation C. Evolution D. Variation

5. Charles Darwin's theory of natural selection is based on the idea that

A. All organisms evolve at the same rate B. Organisms with favourable traits are more likely to survive and reproduce C. Mutations are always beneficial D. Environment has no effect on evolution

6. In human genetics, the sex of a child is determined by

A. The mother's chromosomes B. The father's sex chromosomes (X or Y) C. The temperature during development D. The nutrition of the mother

7. Newton's Third Law of Motion states that