SMARTWIZ

GRADE 5 TECHNOLOGY EXAM

MARKS: 50

MARKS	

TIME: 1 hour

SCHOOL_____

CLASS (e.g. 4A) _____

SURNAME_____

NAME_____

Instructions for Students:

> Read all instructions carefully before beginning the exam.

> Write your name and student ID clearly on the answer sheet/booklet.

> Answer all questions unless otherwise stated.

> Show all your work/calculations where applicable.

> Write clearly and legibly.

> Use blue or black ink only. * Do not use correction fluid/tape.

> No electronic devices (calculators, phones, etc.) are allowed unless explicitly permitted.

> Raise your hand if you have any questions.

> Do not talk to other students during the exam.

> Any form of cheating will result in disqualification.

QUESTION 1: Systems and Control (10 marks)

1.1 What is a system? Give an example. (5)

_____

_____

1.2 Name and explain the three main parts of a system. (5)

_____

_____

_____

QUESTION 2: Structures and Materials (10 marks)

2.1 Define what a structure is. (3)

_____

2.2 Explain the difference between frame and shell structures. (4)

_____

_____

2.3 Why is it important to use strong materials in building structures? (3)

_____

_____

QUESTION 3: Tools and Safety (10 marks)

3.1 List four tools commonly used in technology. (4)

_____

_____

3.2 Describe two safety rules when using tools. (4)

_____

_____

3.3 Why should you wear safety gear when working with tools? (2)

_____

_____

QUESTION 4: Processing (10 marks)

4.1 What is processing in technology? (3)

4.2 Name three different processes used to make or change products. (3)

4.3 How does joining materials help in technology? (4)

QUESTION 5: Technology and the Environment (10 marks)

5.1 How can technology help protect the environment? Give two examples. (6)

5.2 What is recycling? Why is recycling important? (4)

TOTAL: 50 MARKS

📝 MEMORANDUM: Grade 5 Technology Exam Paper

Total: 50 Marks

QUESTION 1: Systems and Control (10 marks)

1.1

- A system is a group of parts working together to do a task.
- Example: A washing machine. (5 marks)

1.2

- Three main parts of a system:
    - Input: What goes into the system (e.g., water, electricity)
    - Process: What the system does (e.g., washing clothes)
    - Output: The result or product (e.g., clean clothes) (5 marks)

QUESTION 2: Structures and Materials (10 marks)

2.1

- A structure is something built to support or hold something else. (3 marks)

2.2

- Frame structures are made with parts joined together to make a skeleton or frame (e.g., a bicycle frame).
- Shell structures have a solid surface or skin that supports weight (e.g., a dome). (4 marks)

2.3

- Strong materials are important so that structures don't break and stay safe and last long. (3 marks)

QUESTION 3: Tools and Safety (10 marks)

3.1

- Four tools: hammer, screwdriver, saw, pliers. (4 marks)

3.2

- Safety rules:
  - Always wear safety gear when using tools.
  - Use tools only for their intended purpose. (4 marks)

3.3

- Safety gear protects you from injuries and accidents. (2 marks)

QUESTION 4: Processing (10 marks)

4.1

- Processing is changing raw materials into finished products. (3 marks)

4.2

- Examples of processes: cutting, shaping, joining. (3 marks)

4.3

- Joining materials helps build things by holding parts together to make a strong product. (4 marks)

QUESTION 5: Technology and the Environment (10 marks)

5.1

- Technology can help protect the environment by:
  - Using solar energy instead of fossil fuels
  - Creating machines that use less water or energy (6 marks)

5.2

- Recycling is reusing old materials to make new products.
- Recycling is important because it reduces waste and saves natural resources. (4 marks)