

# SMARTWIZ

## GRADE 5 TECHNOLOGY EXAM

**MARKS: 50**

MARKS	

**TIME: 1 hour**

**SCHOOL** \_\_\_\_\_

**CLASS (e.g. 4A)** \_\_\_\_\_

**SURNAME** \_\_\_\_\_

**NAME** \_\_\_\_\_

MYST PATHWORKS

### 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**? (3)

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1.2 Name the three main parts of a system. (3)

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1.3 Give one example of a system you use every day. Explain why it is a system. (4)

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## QUESTION 2: Structures and Materials (10 marks)

2.1 Define the term **structure**. (3)

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2.2 List two types of structures. (4)

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2.3 Why is it important to choose the right material for a structure? (3)

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## QUESTION 3: Tools and Safety (10 marks)

3.1 Name three tools used in technology. (3)

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3.2 Why must you always follow safety rules when using tools? (4)

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3.3 What safety gear should you wear when working with tools? Name two. (3)

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#### QUESTION 4: Processing (10 marks)

Read the following short passage and answer the questions below:

*"Processing means changing raw materials into finished products. For example, wood can be cut and shaped to make furniture. Processing also includes joining materials together using nails, glue, or screws."*

4.1 What does processing mean? (3)

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4.2 Give two examples of processing from the passage. (4)

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4.3 Name two ways materials can be joined together. (3)

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#### QUESTION 5: Picture Question – Systems in Use (10 marks)



5.1 Name the system shown in the picture. (2)

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5.2 Identify the input, process, and output of this system. (6)

Part	Description
Input	
Process	
Output	

5.3 Why is this system useful? (2)

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## MEMORANDUM: Grade 5 Technology Exam Paper

Total: 50 Marks

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### QUESTION 1: Systems and Control (10 marks)

#### 1.1

- A system is a set of parts that work together to do a specific job or task. (3 marks)

#### 1.2

- Three main parts of a system:

- Input
- Process
- Output (3 marks)

#### 1.3

- Example: A washing machine is a system because it has input (water and electricity), process (washing clothes), and output (clean clothes). (4 marks)
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### QUESTION 2: Structures and Materials (10 marks)

#### 2.1

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

#### 2.2

- Two types of structures:
  - Frame structure
  - Shell structure*(Accept any two correct types)* (4 marks)

## 2.3

- Choosing the right material makes sure the structure is strong, safe, and lasts a long time. (3 marks)
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## QUESTION 3: Tools and Safety (10 marks)

### 3.1

- Three tools:
  - Hammer
  - Screwdriver
  - Saw (3 marks)

### 3.2

- Safety rules prevent accidents and injuries when using tools. (4 marks)

### 3.3

- Safety gear:
    - Safety goggles
    - Gloves (2 marks each; total 3 marks)
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#### QUESTION 4: Processing (10 marks)

##### 4.1

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

##### 4.2

- Examples of processing:
  - Cutting wood
  - Shaping wood into furniture (4 marks)

##### 4.3

- Ways to join materials:
    - Nails
    - Glue
    - Screws (Any two correct = 3 marks)
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#### QUESTION 5: Picture Question – Systems in Use (10 marks)

##### 5.1

- Name of system depends on the picture inserted. Example: Bicycle, Water Tap System, etc. (2 marks)

##### 5.2

- Example answers for Bicycle system:

Part	Description
Input	Rider pedals (power)
Process	Chain moves the wheels
Output	Bicycle moves forward

(6 marks)

### 5.3

- This system is useful because it helps people move from one place to another easily and quickly. (2 marks)

