

# 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: Inputs, Processes, and Outputs (10 marks)**

**1.1** Define what an input is in a system. Give one example. (4)

---

**1.2** What happens during the process stage of a system? (3)

---

**1.3** Give an example of an output in a kitchen appliance system. (3)

---

## **QUESTION 2: Materials and Their Uses (10 marks)**

**2.1** Name three common materials used in technology. (3)

---

**2.2** Explain why it is important to select the correct material for a product. (4)

---

**2.3** What type of material would you use to build a chair? Why? (3)

---

## **QUESTION 3: Simple Machines (10 marks)**

**3.1** What is a simple machine? (3)

---

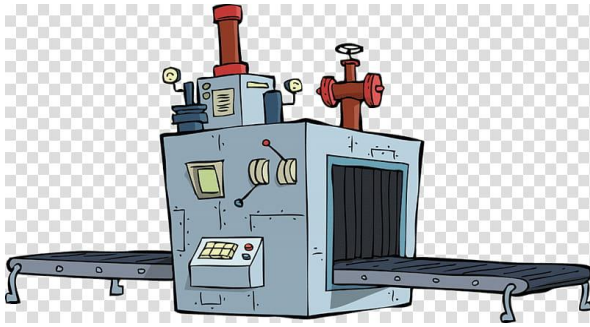
**3.2** Name two types of simple machines and give an example of each. (4)

---

**3.3** How do simple machines make work easier? (3)

---

#### QUESTION 4: Safety in Technology (10 marks)



**4.1** Why is it important to follow safety rules when working with tools and machines? (5)

---

**4.2** List three safety precautions you should take when using a hammer. (5)

---

---

#### QUESTION 5: Environmental Impact (10 marks)

**5.1** How can technology harm the environment? Give two examples. (5)

---

---

**5.2** What can we do to reduce the negative impact of technology on the environment? (5)

---

---

---

**TOTAL: 50 MARKS**

## **QUESTION 1: Inputs, Processes, and Outputs (10 marks)**

### **1.1**

- Input is what goes into a system to make it work.
- Example: Electricity going into a toaster. (4 marks)

### **1.2**

- During the process stage, the system changes the input to do the job. (3 marks)

### **1.3**

- Output is what the system produces or does at the end.
  - Example: Toast coming out of the toaster. (3 marks)
- 

## **QUESTION 2: Materials and Their Uses (10 marks)**

### **2.1**

- Three common materials: wood, metal, plastic. (3 marks)

### **2.2**

- Using the correct material is important because it makes the product strong, safe, and suitable for its use. (4 marks)

### **2.3**

- Material for chair: wood (or metal/plastic) because it is strong and supports weight. (3 marks)
- 

## **QUESTION 3: Simple Machines (10 marks)**

### **3.1**

- A simple machine is a tool that makes work easier by changing the direction or amount of force needed. (3 marks)

### **3.2**

- Two types:
  - Lever (example: seesaw)
  - Inclined plane (example: ramp) (4 marks)

### 3.3

- Simple machines make work easier by reducing effort or changing force direction. (3 marks)
- 

## QUESTION 4: Safety in Technology (10 marks)

### 4.1

- Following safety rules prevents accidents and injuries when using tools and machines. (5 marks)

### 4.2

- Safety precautions with hammer:
    - Wear safety goggles
    - Hold the nail correctly
    - Make sure the area is clear before swinging (3 correct = 5 marks)
- 

## QUESTION 5: Environmental Impact (10 marks)

### 5.1

- Technology can harm the environment by:
  - Pollution from factories or machines
  - Cutting down trees for materials (2 examples = 5 marks)

### 5.2

- To reduce harm:
  - Recycle materials
  - Use renewable energy sources like solar or wind power (2 good answers = 5 marks)