

## Section A

## Question 1 multiple choice questions [1- 10]

1. D
2. C
3. A
4. A
5. D
6. TRUE
7. TRUE
8. FALSE
9. TRUE
10. TRUE

## Question 2

Fill in the table below by filling in the empty spaces [10]

Type of tool	Uses of tool	Examples (2)
i) Cutting tool	Cut papers, cut wires	<b>Pair of scissors, wire cutters</b>
ii) Clamping tool	<b>Hold things together</b>	Stapler, G clamp
iii) Measuring tool	Measure distance	<b>Ruler, tape measure</b>
iv) Hammering tool	Hit nails into materials	<b>Hammer, mallet</b>
v) <b>Smoothing tool</b>	Make surface of a wood smooth	Sand paper

Match the type of material with its product.

[10]

Type of Material	Product Made
1. Metal	<b>Knives                  garden tools</b>
2. <b>plastic</b>	Bowls, plates, measuring items
3. <b>Glass</b>	Drinking glasses, bottles, window panes
4. Wood	<b>Furniture                  wooden frames</b>
5. Fibre	<b>Clothing                  floor carpets</b>

## Section B

a. Define the following terms [10]

- i) Drama - is a play, presented by actors on stage
- ii) Mime – is a silent way of acting
- iii) Tool - is an instrument used to do work
- iv) Services – is any kind of work done for others
- v) Needs – things that are essential for life, things that we cannot live without.

b. **I) list the six stages of the technological design in chronological order[6]**

- i) Research ways of meeting the need
- ii) Choose the best idea
- iii) Making a plan or model
- iv) Making the product
- v) Test the product

ii) **Why is the fourth stage important?**

It helps in making the process to be easy as the producer only follows the plan he or she has made.

iii) **Why is it important to test the product after you have completed your project?**

To realise if the idea you chose was successful and harmless to the environment, user friendly.

c. i) **What is a structure? [2]**

Is anything made out of different materials that have been brought together to form one complete body.

ii) **Differentiate between artificial and natural structures. [4]**

Artificial structures are made by people and they are destroyable whereas natural structures are naturally formed and are not easily destroyed

iii) **Why are structures important? Give two reasons that are clearly discussed. [4]**

Structures such as houses provide shelter and people get safety in them as they are protected from harsh weather conditions and any kind of danger attacks

Structures such as bridges and overhead bridges help to connect two separate pieces of land.

### **Section C – The Technological Design Process**

In my class the windows are uncovered. I usually get disturbed and lose concentration whenever I see my schoolmates moving up and down to the toilet. There is really something that I have to do about this, to save myself from failing. **[10]**

**a. Identify the technological need in the story above. [2]**

Covering the windows

**b. Think of two ways of solving the problem. [2]**

Weaving a window blind because the material that are used when weaving a window blind are readily available in m community, incoboza, reed and lusinga.

**c. Choose the best idea from the two ways you listed above and clearly give a reason that support your choice. [4]**

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**d. How would you test if the idea you chose in stage 3 worked for you. [2]**

I will put the product in use and then see the outcome. The product should solve the problem I had; should be user friendly and environmentally friendly and easy to use.

## **Section D**

Card should be clear, neat and must contain relevant details. It should be colourful and attractive.