

2026 BECE MOCK 6 CAREER TECHNOLOGY 2

PAPER 2: ESSAY

PART A [30 Marks]

Answer Question 1 [Compulsory] and any other one question.

1. The figures below show the types of sewing machines used in Ghana.



- (a) Identify by name each of the equipment labelled I, II and III. [3 marks]
- (b) Give two advantages of the part labelled I. [4 marks]
- (c) Mention three ways to care for the sewing machine. [3 marks]
- (d) Kwamena is a garment maker. He prefers freehand cutting to pattern cutting.
State three advantages Kwamena has over the one who uses pattern cutting. [3 marks]
- (e) Give two uses of scissors as a cutting tool in the sewing workshop. [2 marks]

2. (a) The town XYZ is facing a major problem of poor waste disposal and indiscriminate defecation. The streets and public places are littered with plastic waste, which is not only an eyesore but also a health hazard. Mention three measures to serve as some of the long-term solutions to address the problem. [3 marks]

- (b) (i) Explain personal hygiene. [1 mark]
- (ii) Outline **four** personal hygiene practices. [4 marks]
- (iii) Suggest **three** importance of observing personal hygiene. [3 marks]

(c) List **two** ways to care for each of the following parts of the body: [4 marks]

(i) Fingernails

(ii) Hair

3. (a) (i) There are two main types of materials used for production at the workshop. They are resistant materials and Non-resistant materials. State **two** differences between resistant materials and non-resistant materials. [4 marks]

(ii) Mention **two** examples each of resistant and non-resistant materials. [2 marks]

- (b) (i) What are complaint materials? [1 mark]
- (ii) Explain why smart materials are modern but not all modern materials are smart. [4 marks]

(c) Copy and complete the table below. [4 marks]

Parts of Plant	One Vegetable Produced
(i) Root	
(ii) Bulb	
(iii) Flowers	
(iv) Fruits	

PART B [30 marks]

Answer **Question 4 [Compulsory]** and any **other one question**

4. (a) The list below shows the operational sequence for making a dustbin from mild steel sheet. The operations are not in correct order. Rearrange the incorrect order. [7 marks]



- (i) Bend one end of the sheet metal at 90 degrees
 - (ii) Assemble the artifact
 - (iii) Measure, mark and cut sheet metal. Leave few millimeters for folding
 - (iv) Apply finishes
 - (v) Fold the sheet metal and make seam
 - (vi) Measure, mark and cut base. Leave millimeters for folding
 - (vii) Fold the edges at acute angle
- (b) (i) List **two** tools for cutting the sheet metal. [2 marks]
(ii) Suggest **one** tool for folding the sheet metal. [1 mark]
(iii) Name **one** surface finish applied on the dustbin if it should be placed in an open environment. [1 mark]
- (c) State **one** use of the following tools: [4 marks]
(i) Dot punch
(ii) Hack saw
(iii) Engineer's vice
(iv) Steel rule
5. (a) Kwame is planning to build a two-bedroom house in his hometown. He is unsure whether to use cement block or mud bricks for the walls. He wants the house to be strong, affordable and comfortable to live in.
- (i) State **two** factors Kwame should consider when choosing building materials. [2 marks]
 - (ii) Compare cement blocks and mud bricks under the following heading: [3 marks]
 - a) Strength
 - b) Cost
 - c) Durability
 - (iii) Suggest with reasons, which material would be more suitable for Kwame's house. [4 marks]
- (b) (i) How would you explain resistant materials to your friend? [1 mark]
(ii) Mention **three** physical properties of resistant materials. [3 marks]
(iii) State **two** characteristics of thermoplastics. [2 marks]
6. (a) List two specific tools each for carrying out each of the following operations: [4 marks]
(i) Setting out a foundation
(ii) Moulding bricks
(iii) Cutting a mortise in a piece of wood
(iv) Soldering sheet metals

(b) Copy and complete the table below.

[4 marks]

Type of finishes	One surface on which it is applied
(i) Oil paint	
(ii) Emulsion paint	
(iii) Ceramic tiles	
(iv) Lacquer polish	

(c) Give **one** specific reason for the following operation:

[4 marks]

- (i) The head or bit of soldering iron made of copper
- (ii) A piece of nut metal has internal thread
- (iii) Glass papering a workpiece before finishing
- (iv) Applying priming coat of a lacquer on wood surface

(d) Make a neat freehand sketch of the **G-clamp** and label **two** parts.

[3 marks]

