

**BECE SC 2025**  
**(CAREER TECHNOLOGY - PAPER 2B)**

**PART B**

**QUESTION FOUR (COMPULSORY)**

(a)

(i) **Listing two different types of timber suitable for producing the money box**

- |            |          |         |
|------------|----------|---------|
| ▪ Odum     | ▪ Sapele | ▪ Teak  |
| ▪ Wawa     | ▪ Ofram  | ▪ Oak   |
| ▪ Mahogany | ▪ Emire  | ▪ Cedar |

[Any 2 x 1 mark each = 2 marks]

*NB: accept all timber except manufactured boards*

(ii) **Naming two suitable joints to be used for assembling the body to the base**

- |                               |  |
|-------------------------------|--|
| ▪ Pin joint/finger/comb joint | ▪ Housing joint/dado joint/slotted joint |
| ▪ Butt joint                  | ▪ Dowel joint                            |

[Any 2 x 1 mark each = 2 marks]

(iii) **Listing two different tools for cutting the slot**

- |                         |               |
|-------------------------|---------------|
| ▪ Firmer/mortise chisel | ▪ Keyhole saw |
| ▪ Mallet                | ▪ Brace & bit |
| ▪ Pad saw               |               |

[Any 2 x 1 mark each = 2 marks]

(b) **Re-arranging the procedures for making the money box in sequential order:**

1. IV. Measure and mark out the workpieces;
2. V. Cut the workpieces into sizes;
3. VI. Prepare the joints;
4. I. Mark out and cut the top hole;
5. II. Assemble the workpieces by gluing;
6. III. Finish off the artefact with glasspaper and apply lacquer.

[6 correctly arranged operations x 1 mark each = 6 marks]

*NB: Award full marks if candidate writes the roman numerals only without rewriting the accompanying statements.*

(c)

(i) **Stating one type of adhesive to be used to assemble the unit**

- White glue/Polyvinyl Acetate/PVA
- Casein glue
- Animal glue

*\* wooden glue*

*\* super glue  
\* glue \**

[Any 1 x 1 mark = 1 mark]

(ii) **Listing two types of fasteners that can be used to strengthen the joint.**

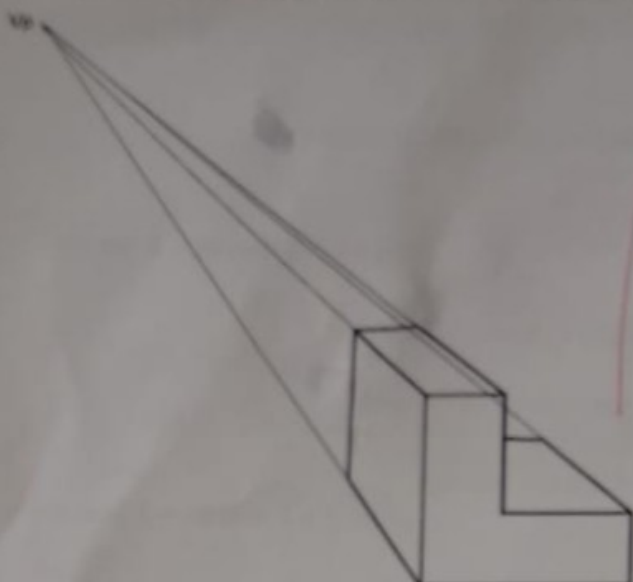
- |              |          |
|--------------|----------|
| ▪ Panel pins | ▪ Screws |
| ▪ Nails      | ▪ Dowels |

[Any 2 x 1 mark each = 2 marks]

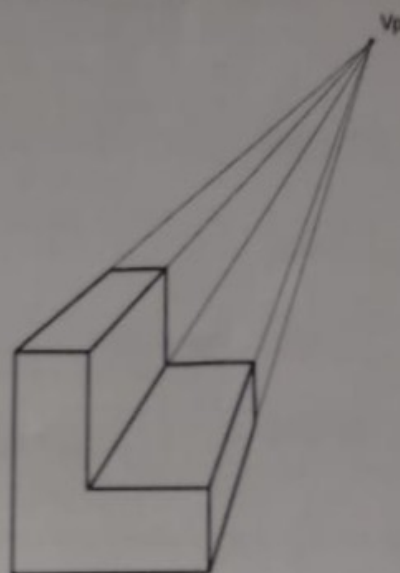
**TOTAL: 15 MARKS**

## QUESTION SIX

(a) Drawing the figure in single-point perspective below the eye level



OR



(i)	Copying the front elevation	-	-	-	-	-	1 mark
(ii)	Locating the vanishing point	-	-	-	-	-	½ mark
(iii)	Drawing receding lines from the front elevation	-	-	-	-	-	2 marks
(iv)	Joining the ends of the block	-	-	-	-	-	1½ marks
(v)	Drawing the outline of the finished object	-	-	-	-	-	1 mark
	[Total	-	-	-	-	-	6 marks]

(b) Listing four management processes that the graduate should be familiar with in order to become a good manager

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Planning</li> <li>• Organizing</li> <li>• Directing</li> <li>• Controlling</li> <li>• Supervision/monitoring</li> </ul> | <ul style="list-style-type: none"> <li>• Communicating</li> <li>• Delegating</li> <li>• Motivating</li> <li>• Training</li> <li>• Evaluating</li> </ul> |
|--|---|
- [Any 4 x 1 mark each = 4 marks]

(c)

(i) Stating two primary purposes of frame structures

Frame structures are designed to enhance:

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Stability</li> <li>• Strength</li> <li>• Rigidity</li> </ul> | <ul style="list-style-type: none"> <li>• Shape</li> <li>• Support</li> <li>• Safety</li> </ul> |
|---|--|

[Any 2 x 1 mark each = 2 marks]

(ii) Listing three examples of frame structures

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>• Building</li> <li>• Bridge</li> <li>• Roof truss</li> <li>• Door frame</li> </ul> | <ul style="list-style-type: none"> <li>• Crane</li> <li>• Scaffold</li> <li>• Electricity pylon</li> <li>• Communication tower/mast</li> </ul> | <ul style="list-style-type: none"> <li>• Formwork</li> <li>• Human skeletons</li> <li>• Motor vehicles</li> <li>• Window frame</li> </ul> |
|--|--|---|

[Any 3 x 1 mark each = 3 marks]

TOTAL: 15 MARKS