

Candidate's Examination Number .....

**SMZ**

**ZANZIBAR EXAMINATIONS COUNCIL**

**FORM THREE ENTRANCE EXAMINATION**

**058**

**TECHNICAL DRAWING**

**TIME 2:30 HOURS**

**THURSDAY 30<sup>TH</sup> NOVEMBER, 2017 p.m**

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**INSTRUCTIONS TO CANDIDATES**

- 1. This paper consists of six (6) questions**
- 2. Answer question number one (1) and any other three (3) questions.**
- 3. All dimensions are in millimeters (mm).**
- 4. Write your examination number on every page of this booklet.**
- 5. Cellular phones are not allowed in the examination room.**
- 6. Use a blue or black pen in writing. The diagrams must be drawn in a pencil.**

<b>FOR EXAMINER'S USE ONLY</b>		
<b>Question number</b>	<b>Marks</b>	<b>Signature</b>
<b>1</b>		
<b>2</b>		
<b>3</b>		
<b>4</b>		
<b>5</b>		
<b>6</b>		
<b>TOTAL</b>		

This paper consists of 7 printed pages.

1. From the figure 1 below, draw,

- a) Front elevation
- b) End elevation
- c) Plan.

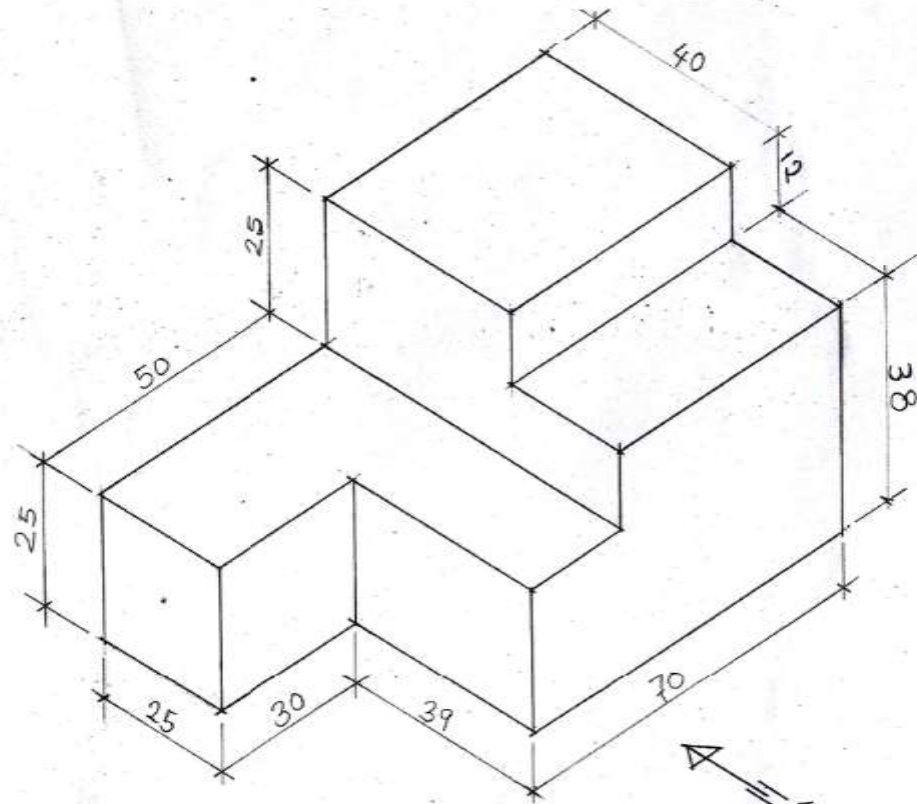


Figure 1

2. A quadrilateral ABCD has sides  $AB = 62\text{mm}$ ,  $BC = 43\text{mm}$ ,  $CD = 80\text{mm}$ ,  $DA = 75\text{mm}$  and  $AC = 87\text{mm}$ . You are required to construct the quadrilateral.

3. a) Identify the functions of T-square.

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- b) With the aid of hand sketching, briefly explain the following terms

- i) A sector

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ii) A segment

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iii) A radius

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iv) An arc.

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4. a) Name five (5) instruments and their uses which are used in technical drawing.

[illegible]

- b) Construct angles of  $60^\circ$  and  $30^\circ$  .
5. Within a circle of diameter 80mm, construct a regular heptagon
6. a) Draw a line AB 100mm long and divide this line in to seven (7) equal parts.

- b) List down five (5) types of lines for drawing purposes.

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