

# TEST 1

SUBJECT: Engineering Graphics & Design

LEVEL: 3

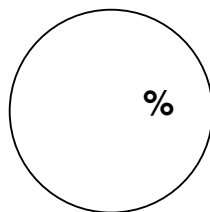
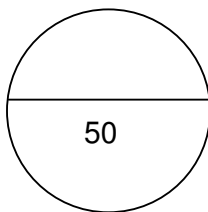
DATE: March 2017

EXAMINER: S MIYA

NAME OF MODERATOR: E SHAMU

Student Surname		Name	
ID. Number		Group	

Topic and outcomes covered	<b>SO 1.1 - 1.2 Isometric scale and isometric drawings</b>
Duration	1 Hours 30 min
Evidence Required	Completed drawing
Instrument	<b>Formal test</b>



Rating Scale	Remark	Rating
5	Outstanding	80 - 100
4	Highly competent	70 - 79
3	Competent	50 - 69
2	Not yet Competent	40 - 49
1	Not achieved	0 - 39

## SIGNATURES:

**Student declaration:** I declare that the evidence provided is my own work.

STUDENT: \_\_\_\_\_ DATE: \_\_\_\_\_

FEEDBACK: \_\_\_\_\_

Indicate which questions you found difficult (tick ✓)

1	2	3	4	5	6	7	8	TOTAL
14	36							50

LECTURER: \_\_\_\_\_ Date: \_\_\_\_\_

COMMENT: \_\_\_\_\_

Post moderation \_\_\_\_\_

College moderation: \_\_\_\_\_ Date \_\_\_\_\_

External moderation \_\_\_\_\_ Date \_\_\_\_\_

## INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.

2. Read ALL the questions carefully.
3. Number the answers according to the numbering system used in this question paper.
4. Use both sides of the A2 drawing sheet if required.
5. A 10 mm border must be drawn on both sides of the drawing sheet.
6. ALL drawings, including the candidate's information must be done in pencil.
7. A balanced layout is important, candidates will be penalised for poor planning.
8. Use your own discretion where dimensions are not given.
9. ALL drawing work must conform to the latest SABS 0111 - Code of Practice for Engineering Drawing.
10. Write neatly and legibly.
11. Topics:

T1 – Isometric Drawing

## QUESTION 1

1.1

The figure on DIAGRAM SHEET 1 (attached) shows the primary views of a LOCKING BRACKET drawn in third angle orthographic projection.

DO NOT COPY THE GIVEN VIEWS, BUT:

- 1.1.1 Construct a suitable isometric scale. (2)
- 1.1.2 Draw an Isometric View of the LOCKING BRACKET using the isometric scale. (12)
- [14]**

## QUESTION 2

- 2.1 2.1.1 Explain in your own words the purpose of an isometric scale (4)
- 2.1.2 Explain how an isometric scale is used to draw an isometric drawing (4)
- 2.1.3 You need certain drawing equipment in order to produce an isometric scale and an isometric drawing. Give FIVE examples. (5)
- 2.1.4 Mention any FOUR types of lines used in the engineering drawings (8)
- 2.1.5 Explain the following concepts:
- 2.1.5.1 Hard drive
- 2.1.5.2 File
- 2.1.5.3 Hard copy (6)
- 2.1.6 Draw an isometric scale to be able to measure 100mm. (3)
- 2.1.7 Draw first-angle projection and third-angle projection symbols (6)

**[36]**

**GRAND  
TOTAL [50]**

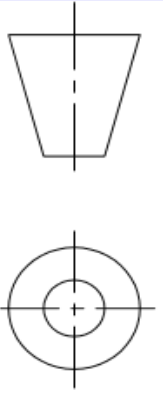


DIAGRAM SHEET 1

