



NATIONAL SENIOR CERTIFICATE EXAMINATION

MAY 2023

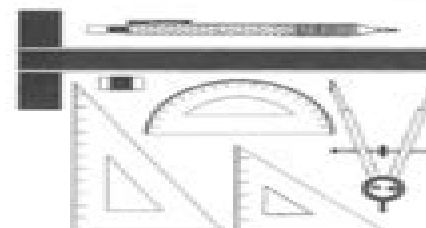
ENGINEERING GRAPHICS AND DESIGN

PAPER 1

MARKS: 200
TIME: 3 HOURS

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. This question paper consists of 6 pages including the cover page and 4 questions.
2. All questions must be answered.
3. Unless specified otherwise, all questions are in First-Angle Orthographic Projection.
4. Unless specified otherwise, all questions are to be completed to a scale of 1:1.
5. All answer sheets must be indicated in numerical order, even questions that have not been answered.
6. All construction work must be shown.
7. Print your examination number neatly on each page.
8. Use only the answer sheets provided.
9. Your drawings should reflect neatness and accuracy.
10. All dimensions or detail not given may be assumed in good proportion.
11. Your drawings should comply with SANS 10143.
12. All measurements are in millimetres (mm) unless otherwise indicated.



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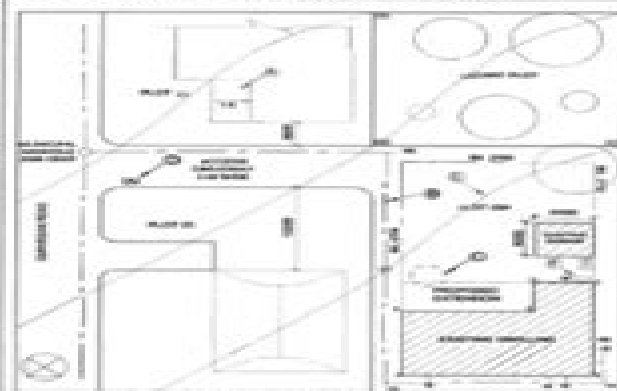
QUESTION	SECTION	MARKS	MODERATED	MAXIMUM	CODE
1	CIVIL APPLICATION			20	
2	CONSTRUCTION & COMMUNICATION			40	
3	PROJECTION & PERSPECTIVE			40	
4	CIVIL DESIGN			100	
TOTAL				200	

CHECKED BY

EXAMINATION NUMBER

PLEASE TURN OVER

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PLEASE NOTE: THIS SITE PLAN IS NOT DRAWN TO SCALE

STUDY THE ABOVE DRAWING AND ANSWER THE QUESTIONS THAT FOLLOW.

Choose the correct answer and print the correct LETTER in the ANSWER BLOCK.

5.1 In what units are the corner heights given on this site plan?

- (A) CENTIMETRES (B) MILLIMETRES (C) METRES (D) UNKNOWN

5.2 What does feature A in plan (B) represent?

- (A) ROAD (B) DRIVEWAY (C) STAIRS (D) PORCH

5.3 What does the line at B represent?

- (A) CONSTRUCTION LINE (B) BOUNDARY LINE (C) BUILDING LINE (D) SEWER LINE

5.4 In which direction would you be walking, if you walked up the stairs?

- (A) NORTHWEST (B) SOUTHEAST (C) NORTHEAST (D) SOUTHWEST

5.5 What does the feature at C represent?

- (A) TREE TO BE PLANTED (B) TREE TO BE REMOVED (C) HOT WATER CHASSIS (D) SPEAKER

5.6 What does the symbol at D represent?

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5.7 What does the symbol at F represent?

- (A) ROAD TIE IN (B) ELECTRICAL BOX (C) HOT WATER CHASSIS (D) ELECTRICITY METER

5.8 Where is plot 25A situated?

- (A) BLOEMFONTEIN (B) DURBAN (C) LA LAGUNA (D) MOUNT EDENBURGH

5.9 How far, in metres, is the building line from the boundary line in plot 25A?

- (A) 2.7 m (B) 2.700 m (C) 2.700 m (D) 2.4 m

5.10 What is the perimeter, in metres, of the building on plot 25A after the proposed extension has been completed?

- (A) 40.4 m (B) 40.400 m (C) 40.4 m (D) 40.400 m

5.11 What is the depth of the municipal mainline in metres?

- (A) 2.800 (B) 2.700 (C) 2.7 (D) 2.8

5.12 How many building lines are there in the drawing?

- (A) 4 (B) 5 (C) 3 (D) 1

5.13 In what is the distance between the 2 buildings on plots 25B and 25C?

- (A) 10.0 m (B) 10.00 m (C) 10.000 m (D) 10.000 m

5.14 What does the abbreviation IC stand for?

- (A) IMPROVED CEMENT (B) IMPROVED CEMENT (C) IMPROVED CEMENT (D) IMPROVED CEMENT

5.15 What is the architect's web address?

- (A) www.decala.co.za (B) www.decala.co.za (C) www.decala.co.za (D) www.decala.co.za

5.16 In the space below, describe the area of the existing building in metres squared (m²). Round your answer to 2 decimal places.

Answer: _____

5.17 In the space below, draw, in FIRST ANGLE, the PLAN VIEW and ELEVATION VIEW of the 5000 101-102 connection for a bath.

PLAN VIEW

ELEVATION VIEW

2

2

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M Lipman



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