INSTRUCTIONS AND INFORMATION

1. This question paper consists of FOUR questions.
2. Answer ALL the questions.
3. ALL drawings are in first-angle orthographic projection, unless otherwise stated.
4. ALL drawings must be completed using instruments, unless otherwise stated.
5. ALL answers must be drawn accurately and neatly.
6. ALL the questions must be answered on the QUESTION PAPER as instructed.
7. ALL the pages, irrespective of whether the question was attempted or not, must be re-stapled in numerical sequence in the TOP LEFT-HAND CORNER ONLY.
8. Proper planning is essential in order to complete all the questions.
9. Print your examination number in the block provided on every page.
10. Any details or dimensions not given must be assumed in good proportion.

FOR OFFICIAL USE ONLY

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FINAL CONVERTED MARK

100

CHECKED BY

 COMPLETE THE FOLLOWING:

CENTRE NUMBER

CENTRE NUMBER

EXAMINATION NUMBER

EXAMINATION NUMBER

MARKS: 100
TIME: 3 hours

This question paper consists of 6 pages.
QUESTION 2: SOLID GEOMETRY

Given:
The front view and an auxiliary view of a truncated right regular hexagonal pyramid with a centrally placed right square pyramidal hole.

Instructions:
Draw, to scale 1 : 1, the following views of the solid:
2.1 The given front view
2.2 The top view
2.3 The left view

• Show ALL hidden detail.
• Show ALL necessary construction. [40]
QUESTION 3: PERSPECTIVE

Given:
Three views of a double-storey dwelling and the information needed to draw a two-point perspective drawing.
PP = Picture plane
HL = Horizon line
GL = Ground line
SP = Station point

Instructions:
Complete the perspective drawing.
- Align the drawing sheet with the ground line (GL).
- Determine and label the vanishing points.
- Show ALL necessary construction.
- NO hidden detail is required.

ASSESSMENT CRITERIA

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**QUESTION 4: CIVIL DRAWING**

**Given:**
- The incomplete south-east elevation of a new garage and washroom showing the walls, the garage door opening, the door and window openings, the roof and notes.
- The incomplete floor plan showing the walls, position of the doors, windows, fixture and the electrical layout.
- The incomplete foundation and external wall detail of the garage and of the washroom.
- Room designations and floor finishes
- Schematic diagrams of the two types of roof trusses and roof notes.
- A table of electrical symbols
- A table of rainwater items
- A table of the fixture
- A door and window schedule
- A table of roof components
- The incomplete floor plan of the new garage and washroom, drawn to scale 1:50, on page 6

**Instructions:**
Answer this question on page 6.

4.1 Using the given incomplete floor plan, draw, in first-angle orthographic projection and to scale 1:50, the following views of the new garage and washroom:

**4.1.1 THE COMPLETE FLOOR PLAN**
Add the following features to the drawing:
- ALL doors and windows
- The fixture as indicated by the abbreviation
- ALL electrical fittings as indicated by numbers
- ALL hatching detail

**4.1.2 THE COMPLETE SOUTH-EAST ELEVATION**
Show the following features on the drawing:
- The outside walls, door and window detail
- The roof detail, including the fascia boards, barge boards, gutters, rainwater down-pipe and gulley
- The finished floor level

4.2 In the space provided, draw, to scale 1:20, a detailed section on cutting plane A-A of the area in the ellipse shown on the incomplete floor plan. Show the following features on the drawing:
- The complete foundation and external wall detail
- The window detail, with a double lintel
- The roof detail, including the fascia board and gutter
- ALL features and fixtures to the right of the section
- ALL hatching detail. ONLY the substructure hatching may be drawn in neat hand

**Label the following:**
- The south-east elevation
- The room designations and floor finishes

Using the correct abbreviations, label the following features in the correct view: ground level, finished floor level and damp-proof course.

**NOTE:**
- Planning is essential.
- ALL drawings must comply with the guidelines and graphical symbols as contained in the SANS 10743.