HILLCREST HIGH SCHOOL
MID-YEAR EXAMINATION
ENGINEERING, GRAPHICS & DESIGN

GRADE 11
2014
PAPER 1

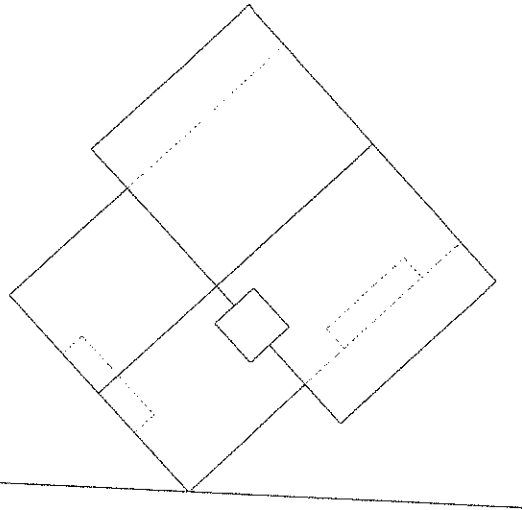
MARKS: 100 **TIME**: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 3 pages including the cover page and 2 questions.
2. All questions must be answered.
3. Unless specified otherwise, all questions are in **Third 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 re-stapled in numerical order, even questions that are not attempted/blank.
6. All **construction work** must be shown, even if a stencil was used.
7. Print your **NAME** neatly on each page.
8. Use only the **drawing sheets** provided.
9. Your drawings should reflect **neatness** and **accuracy**.
10. All dimensions or detail not given may be **assumed in good proportion**.

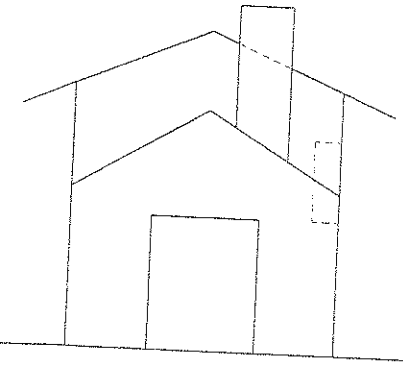
QUESTION	SECTION	MARK	MAXIMUM
1	PERSPECTIVE DRAWING		45
2	SECTIONED ISOMETRIC		55
TOTAL			100

NAME:

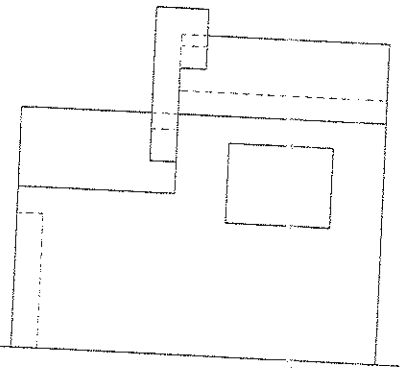


PP

HL



GL



SP

MID-YEAR EXAM

GRADE 11

PAPER 1

QUESTION 1
PERSPECTIVE DRAWING

The following details refer to a dwelling:

SPECIFICATIONS:

- 1 x doorway
- 1 x window
- 1 x chimney
- 1 x overhang roof
- 1 x normal roof with no overhang

TERMINOLOGY:

PP	-	Picture Plane
HL	-	Horizon Line
GL	-	Ground Line
SP	-	Station Point

REQUIREMENTS:

1.1. Draw the two point perspective drawing of the dwelling.

1.2. Label the vanishing points as follows:
Left Vanishing Point = LVP
Right Vanishing Point = RVP

1.3. Show all construction.

ASSESSMENT CRITERIA

You will be assessed on your ability to do the following:

- draw the two point perspective drawing (40)
- label the vanishing points (2)
- show all construction (3)

45 MARKS

NAME:

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QUESTION 2
ISOMETRIC PROJECTION

The following details refer to a piston head:

SPECIFICATIONS:

- Given front view and top view drawn in third angle orthographic projection.
- Use point P as your lowest point.
- Use the cutting plane A-A for the section.

REQUIREMENTS:

2.1. Draw the sectional isometric projection drawing of the piston head.

2.2. Show all construction.

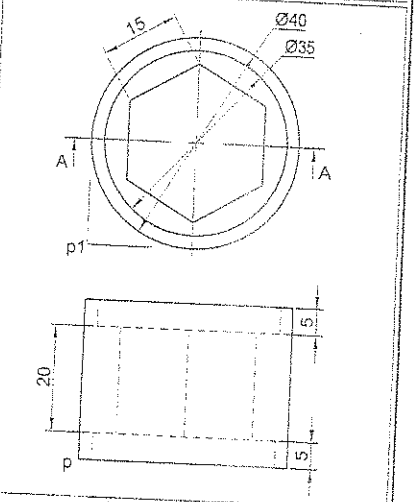
2.3. Draw all centre lines.

2.4. X-Hatch all sectioned areas.

ASSESSMENT CRITERIA

You will be assessed on your ability to do the following:

• draw the isometric projection drawing	(26)
• draw the isometric arcs	(9)
• show the isometric arc construction	(2)
• X-Hatch all sectioned areas	(6)
• X-Hatch at 60°	(2)
• show the construction of the hexagon	(2)
• draw all centre lines	(5)
• position the drawing correctly using point P	(3)



55 MARKS

NAME: