

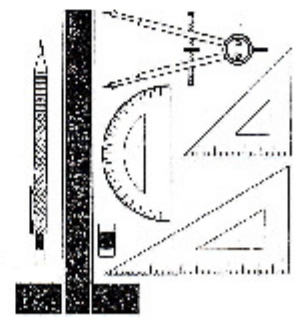
HILLCREST HIGH SCHOOL TRIAL EXAMINATION ENGINEERING, GRAPHICS & DESIGN

GRADE 12
2015
PAPER 1

MARKS: 200 TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATES

- The question paper consists of 6 pages including the cover page and 4 questions.
- All questions must be answered.
- Unless specified otherwise, all questions are to First Angle Orthographic Projection.
- Unless specified otherwise, all questions are to be completed to a scale of 1:1.
- All answers should be clearly developed in the method prescribed and all drawings are to be clearly marked.
- All construction work must be shown, even if the answer is not used.
- Put your examination number clearly on every page.
- Use only one drawing sheet per question.
- Your drawings should be neat, clear and accurate.
- All dimensions and other requirements are to be shown in good proportion.



QUESTION	SECTION	MARKS	MAXIMUM
1	CIVIL ANALYTICAL		30
2	MECHANICAL		40
3	ELECTRICAL		30
4	CIVIL ASSEMBLY		100
TOTAL			200
SYMBOL			100

NAME: _____

NAME: _____

DATE: _____

TEST NO: _____

45144-903

PROVISION

The figure shows the isometric front view and auxiliary top view of an UOCT PIPE.

The auxiliary top view shows the square pipe is 40 mm thick and the top view.

The isometric view consists of an inclined square pipe perpendicular to a vertical half cylinder.

The side of the square pipe and the side of the half cylinder do not lie in the same vertical plane.

Draw the following:

2.1 The auxiliary front view, clearly showing the true dimension of the square pipe into the half cylinder. Show all hidden lines.

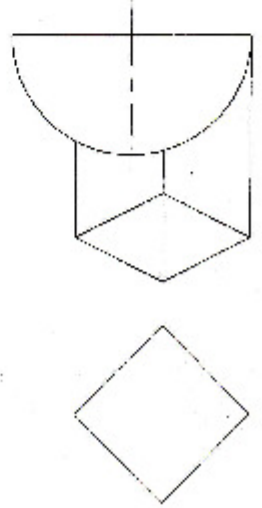
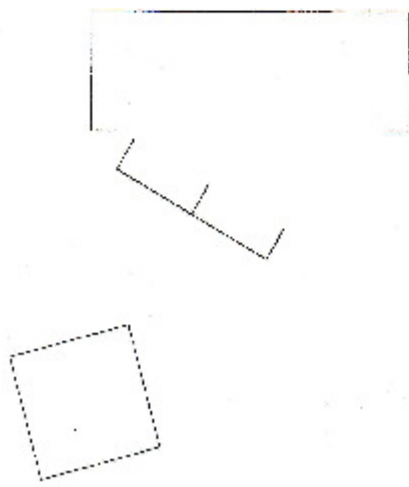
2.2 The development of the half cylinder, showing all true dimensions.

2.3 Show all construction.

ASSESSMENT CRITERIA

You will be assessed on the following:

- draw the picture of the isometric view.
- draw the auxiliary front view.
- draw the development of the half cylinder.
- show all true dimensions.
- show all hidden lines.

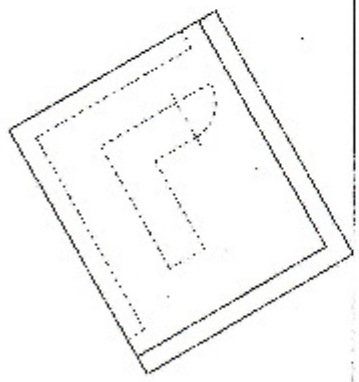


1	2	3	4	5	6

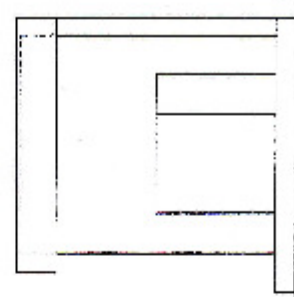
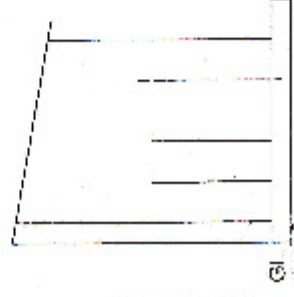
NAME: _____

The figure below shows the views of a chair. Use the
 following clues with Woodruff's Counter
 (draw's next TWO POINT PERSPECTIVE showing 3/4
 half way height.
 Several vanishing points. Label the vanishing points V1P and
 V2P. Do not show any hidden data.

ASSESSMENT CRITERIA
 You will be assessed on your ability to do the following:
 • show all projections
 • determine the vanishing points
 • draw all lines in full perspective



PP _____
 HL _____
 GL _____



GL _____
 SP _____

NAME _____

SCALE 1/4" = 1'-0"

CREATION + REVISIONS

DATE

BY

ASSESSMENT CRITERIA

SECTIONAL ELEVATION

1	CEILING BATTEN	2
2	WALL PLATE	2
3	CEILING BOARD	1
4	TRUSS PLATES	4
5	ROOF TRUSS	6
6	PURLINS	4
7	ROOF	7
8	SECTIONED WALL	6
9	SECTIONAL WINDOW	7
10	FASCIA BOARD	4
11	FOUNDATION FLOOR	8
12	LABELS	6
13	OUTSIDE WALLS	2
14	NOTICE BOARD	2
15	OUTSIDE WINDOW REPAIRS	3
16	DOOR STOP	7
17	INSIDE WINDOW RUBER	8
18	BUILT-IN CUPBOARD	4
19	WASH BASIN	2
20	HATCHING	12

FLOORPLAN

21	WINDOWS	12
22	DOORS + STEP	11
23	WALLS	5
24	SMART & NOTICE BOARD	4
25	LABELLING TABLE	11
26	REINFORCEMENT	4
27	LABELS	3
28	CUTTING PLANE & SH. NO.	6
29	ELECTRICAL	4
30	PLUMBING	4
31	HATCHING	10
TOTAL		200
TOTAL		100

NAME _____

ANSWER SHEET 2