

Leaving Certificate Examination, 2011

Design & Communication Graphics Ordinary Level

Section A (60 marks)

Friday, 17 June Afternoon, 2.00 - 5.00

This examination is divided into three sections:	
SECTION A	(Core - Short Questions)
	(Core - Long Questions)
SECTION C	(Applied Graphics - Long Questions)
	• Four questions are presented.
SECTION A	
	• All questions in Section A carry 20 marks each.
	• Three questions are presented.
SECTION B	• Answer any two on drawing paper.
	• All questions in Section B carry 45 marks each.
	• Five questions are presented.
SECTION C	• Answer any two (i.e. the options you have studied) on drawing paper.
	• All questions in Section C carry 45 marks each.

General Instructions:

- Construction lines must be shown on all solutions.
- Write the question number distinctly on the answer paper in Sections B and C.
- Work on one side of the drawing paper only.
- All dimensions are given in metres or millimetres.
- Write your Examination number in the box below and on all other sheets used.

Examination Number:

SECTION A - Core - Answer Any Three of the questions on this A3 sheet

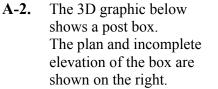
A-1. The 3D graphic below shows a traditional Irish telephone box.

A set of isometric axes and a partially completed drawing of the box are shown on the right. The elevation and plan of the box have been positioned relative to the axes as shown.

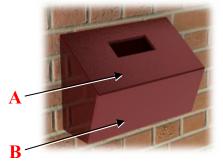
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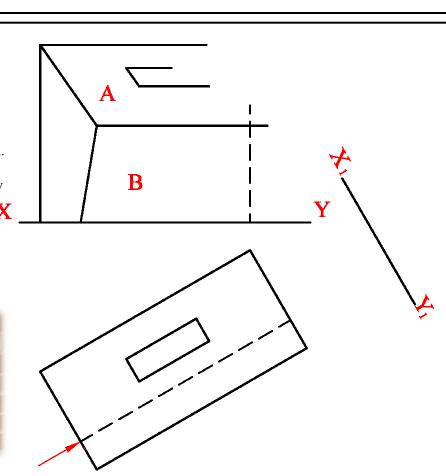
Complete the axonometric projection.





- (a) Complete the elevation.
- (b) Draw an auxiliary view of the post box, on the given X_1Y_1 , which will show the true angle between the surfaces **A** and **B**.





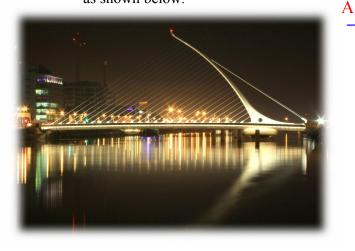
Y

A-3. The 3D graphic below shows Dublin's newest bridge, which is in the shape of a semi-parabola.

The drawing on the right shows a rectangle **ABCV** with a portion of the parabola inscribed.

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- (a) Locate the remaining points on the curve and complete the semi-parabola.
- (b) Draw the lower half of the parabola, representing the reflection in the water, as shown below.



A-4. The 3D graphic below shows three candles which are in contact. The arrangement includes a cone and two cylinders. All three solids rest on the horizontal plane.

The drawing on the right shows the plan and elevation of the cone A. Cylinder B is shown in the plan and cylinder C is shown in the elevation.

- (a) Draw the elevation of cylinder **B**.
- (b) Draw the plan of cylinder C.



This examination paper must be returned at the end of the Examination – You must include your Examination Number on the front cover

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