# Leaving Certificate Examination, 2012

# Design & Communication Graphics Ordinary Level

Section A (60 marks)

Wednesday, 20 June Afternoon, 2.00 - 5.00

#### This examination is divided into three sections:

SECTION A (Core - Short Questions) SECTION B (Core - Long Questions)

SECTION C (Applied Graphics - Long Questions)

## SECTION A

- Four questions are presented.
- Answer any three on the A3 sheet overleaf.
- All questions in Section A carry 20 marks each.

### SECTION B

- Three questions are presented.
- Answer **any two** on drawing paper.
- All questions in Section B carry 45 marks each.

#### **SECTION C**

- Five questions are presented.
- 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:**

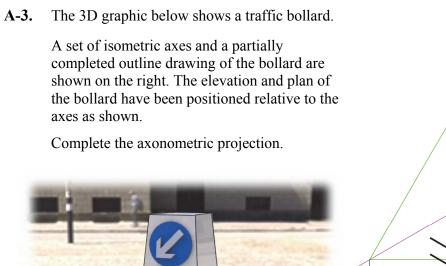
# **SECTION A - Core -** Answer **Any Three** of the questions on this A3 sheet

- **A-1.** The 3D graphic below shows a garage door. The top of the door is in the shape of a semi-ellipse. In the drawing of the door on the right, **AB** is the major axis of the ellipse. The focal points are also
  - (a) Locate the minor axis of the ellipse.
  - **(b)** Draw the semi-ellipse.

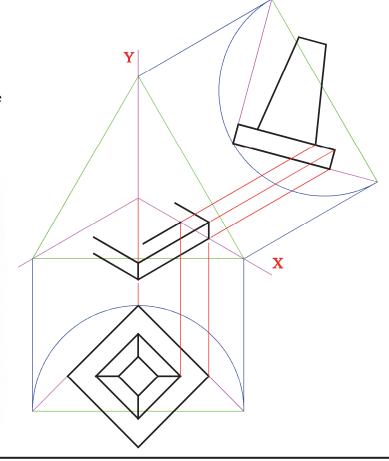
shown.









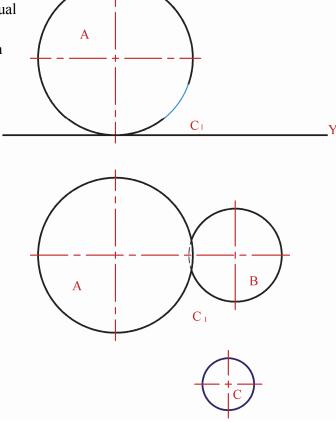


**A-2.** The 3D graphic below shows a garden water feature in which three spheres rest on the ground and are in mutual

> The drawing on the right shows the plan and elevation of sphere **A**. The plan of sphere **B** is also shown.

- (a) Draw the elevation of sphere **B**.
- (b) Draw the plan and elevation of the third Sphere, C (shown in blue) when it has been moved into position  $C_1$  and is in contact with the given spheres **A** and **B**.





**A-4.** The 3D graphic below shows a jar of honey and a label which is to be wrapped around it. The drawing on the right shows the plan and elevation of the label and the hexagonal portion of the glass jar.

> Complete the elevation showing the label in the wrapped position.



