## Coimisiún na Scrúduithe Stáit

# Design \& Communication Graphics Ordinary Level <br> Section A (60 marks) 

Friday, 18 June<br>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)

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- Four questions are presented.
SECTION A - Answer any three on the A3 sheet overleaf.
- All questions in Section A carry 20 marks each.
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- Three questions are presented.
SECTION B - Answer any two on drawing paper .
- All questions in Section B carry $\mathbf{4 5}$ marks each.

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## 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.


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

A-1. The 3D graphic on the left below shows a tennis racket. The head of the racket is an ellipse.
On the drawing on the right, AB is the major axis for the ellipse and a portion of the curve is already drawn.
(a) Locate the minor axis and construct the complete ellipse.

(b) Find the focal points for the ellipse.


A-2. The 3D graphic below shows a training cone which is in contact with a football (A) and a basketball (B) as shown. The three items rest on the floor.
The drawing on the right shows the plan and elevation of the cone. Sphere A is also shown in the plan and sphere B is shown in the elevation.

(a) Draw the elevation of sphere A .
(b) Draw the plan of sphere B.


A-3. The 3D graphic below shows a modern seat from a hotel lobby.
The plan and incomplete elevation of the seat are shown on the right.
(a) Complete the elevation.
(b) Draw an auxiliary view of the seat which will show the true angle
between the surfaces
A and B .




A-4. The 3D graphic below shows three steps from the entrance to a building.
A set of isometric axes and partially completed drawing are shown on the right. The elevation and incomplete plan of the steps have been positioned relative to the axes as shown.
(a) Complete the plan of the object.
(b) Complete the axonometric projection.




[^0]:    - 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 $\mathbf{4 5}$ marks each.

