Leaving Certificate Examination, 2021

Design & Communication Graphics Ordinary Level

Section A (60 marks)

Centre No.

Thursday, 24 June Morning, 9:30 - 12:30

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

Eight questions are presented.

and

Answer any two on drawing paper.

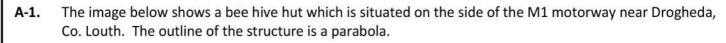
SECTION C

• All questions in Section B and Section C carry 60 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.

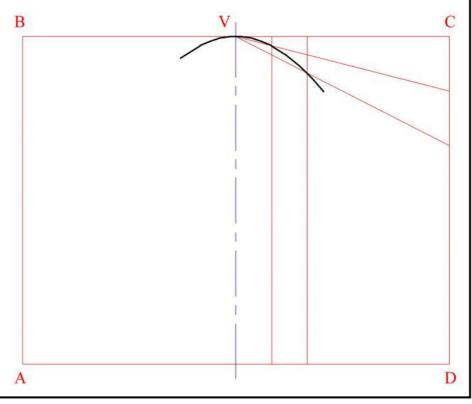
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The drawing on the right shows a portion of a similar parabola, which is inscribed in rectangle **ABCD**. **V** is the vertex of the curve.

- (a) Locate the remaining points on the right hand side of the parabola.
- **(b)** Locate the points on the left hand side of the parabola.
- (c) Complete the parabola in the rectangle ABCD.





A-2. The image below shows a bridge in Fitzgerald Park, Cork. The symmetrically designed structure includes tangential arcs A, B, and C which have the same radius.

The drawing on the right shows a partially completed view of the structure.

- (a) Complete the upper section of the bridge by drawing arc C tangential to the given arcs A and B. Show clearly how the centre point for arc C is located.
- (b) Show all points of contact.



