



Leaving Certificate Examination, 2022

***Design & Communication Graphics
Ordinary Level***

Section A (60 marks)

Centre No.

**Thursday, 23 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

and

- Eight questions are presented.

SECTION C

- Answer **any two** on drawing paper.
- All questions in Section B and Section C carry **60 marks** each.

General Instructions:

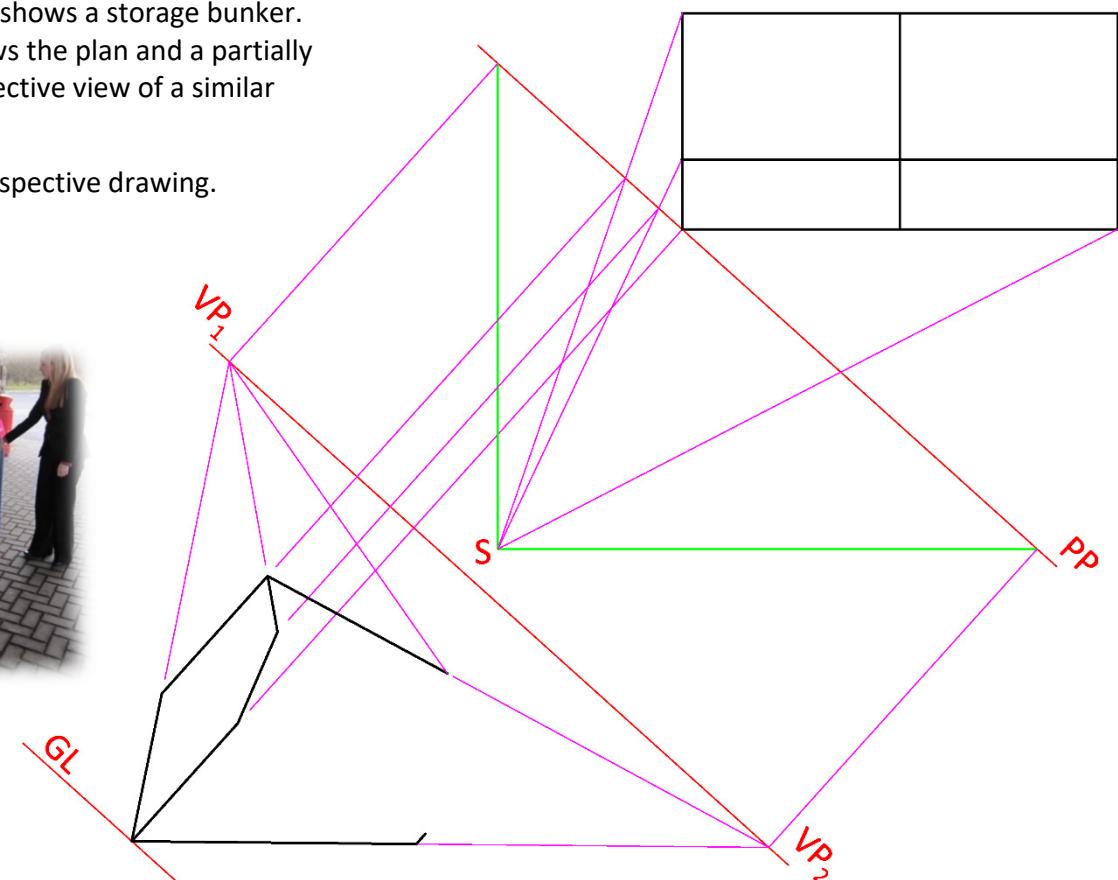
- *Construction lines must be shown on all solutions.*
- *Write the question number distinctly on the answer paper in Sections B and C.*
- *Work on one side of the drawing paper only.*
- *All dimensions are given in metres or millimetres.*
- *Write your Examination number in the box below and on all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

Examination Number

SECTION A - Core - Answer any three of the questions on this A3 sheet.

- A-1.** The image below shows a storage bunker. The drawing shows the plan and a partially completed perspective view of a similar storage bunker.

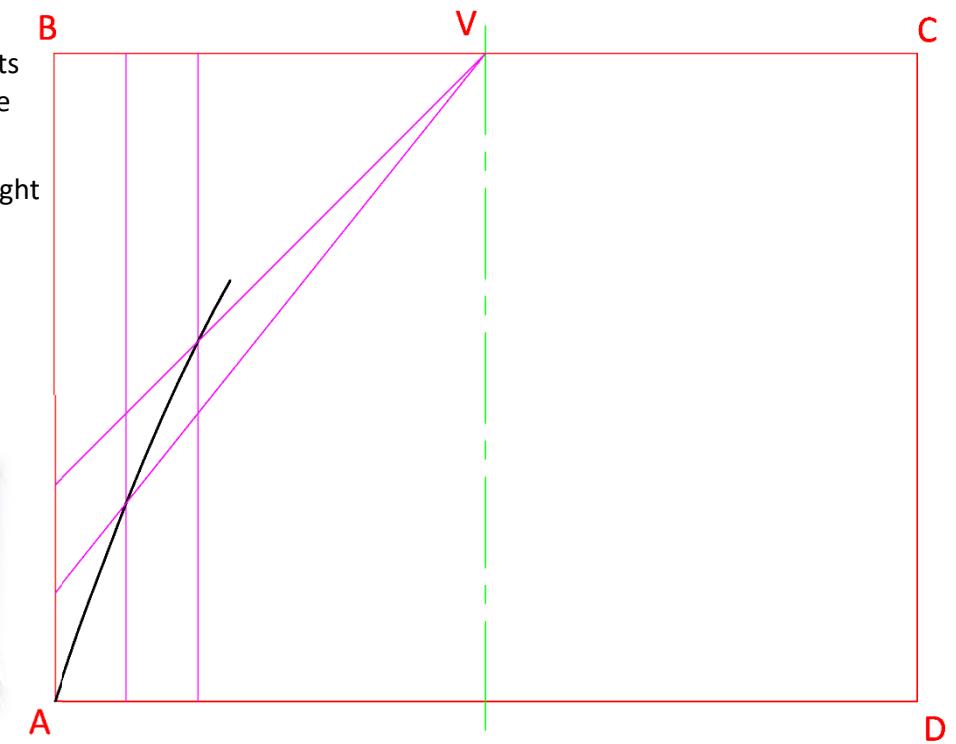
Complete the perspective drawing.



- A-2.** The image below shows the Wembley arch that supports the roof of the football stadium. The arch is in the shape of a parabola.

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

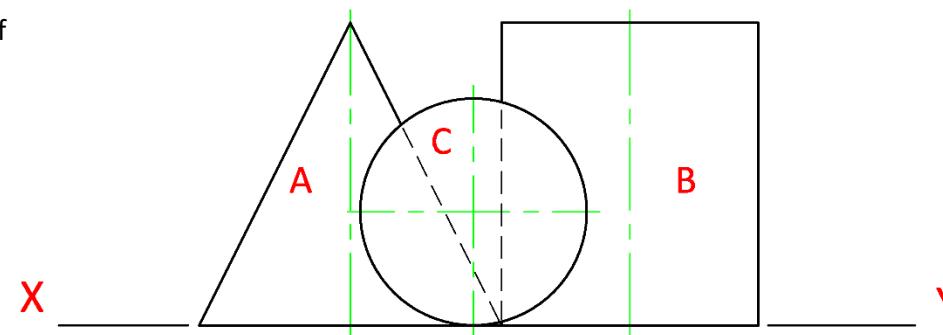
- (a) Locate the remaining points on the left hand side of the parabola.
- (b) Locate the points on the right hand side of the parabola.
- (c) Complete the parabola in the rectangle ABCD.



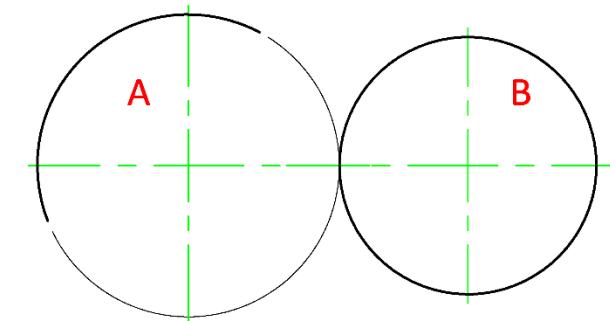
- A-3.** The image below shows a set of inflatable geometric shapes for a children's outdoor play area.

The arrangement includes a cone A, cylinder B and sphere C which are in mutual contact.

The drawing on the right shows the elevation and partially completed plan of the three solids.

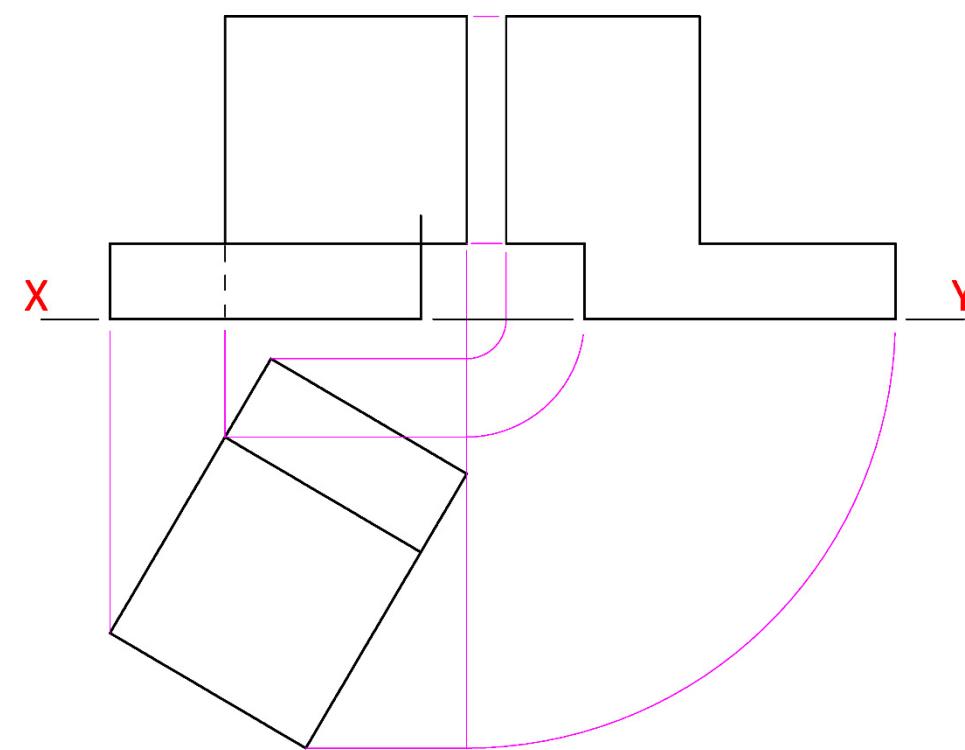
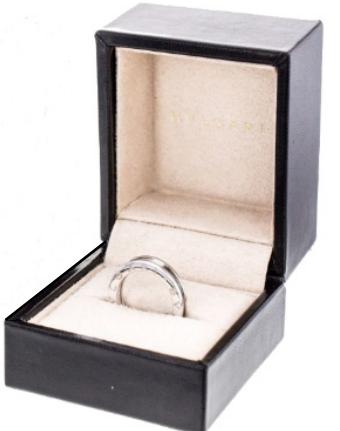


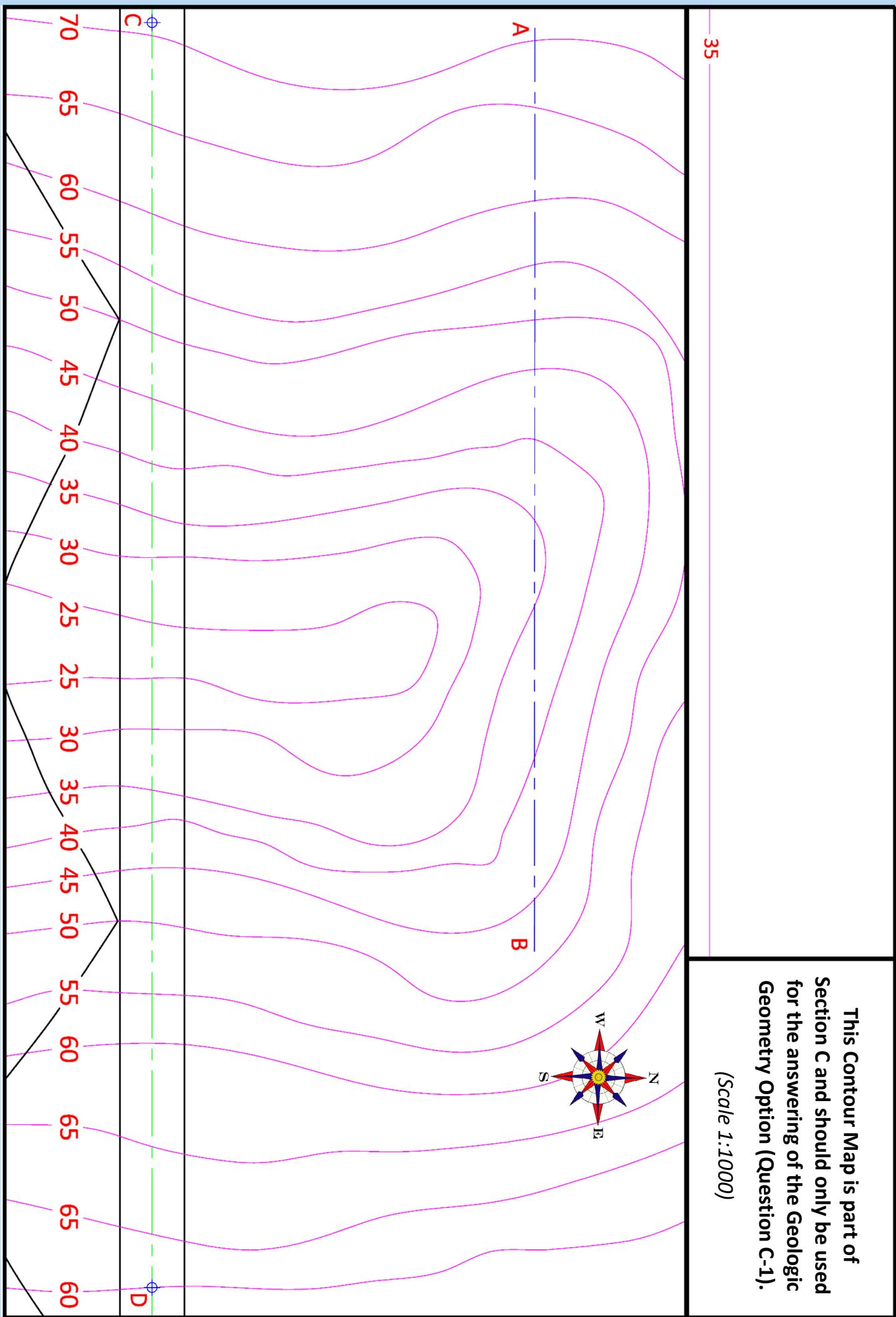
- (a) Draw the plan of the sphere C.
- (b) Complete the plan, showing all hidden detail.



- A-4.** The image below shows a ring box with the lid opened through 90° . The plan, partially completed elevation and partially completed end view of the box with the lid in the open position are also shown.

- (a) Complete the elevation.
- (b) Complete the end view.





This Contour Map is part of
Section C and should only be used
for the answering of the Geologic
Geometry Option (Question C-1).

(Scale 1:1000)