This examination is divided into three sections:

SECTION A (Core - Short Questions)

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

SECTION B (Core - Long Questions)

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

SECTION C (Applied Graphics - Long Questions)

- 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 an image of a calculator. The plan and partially completed elevation and end view are also shown.
(a) Complete the elevation of the calculator.
(b) Complete the end view of the calculator.

A-2. The graphic on the right shows an image from the ‘Angry Birds’ computer game. The curve is in the shape of a parabola. The drawing below shows a portion of a parabola inscribed in a rectangle ABCD. V is the vertex of the parabola.
(a) Locate the remaining points on the parabola.
(b) Draw the complete parabola.

A-3. The 3D graphic below shows a widescreen plasma TV on a rectangular stand.
The drawing on the right shows the plan and a partially completed perspective drawing of the TV.
Complete the perspective drawing of the TV and stand.

A-4. The drawing below shows an arrangement of circles similar to those in the toy on the right.
The horizontal line RS and circles A and B are in fixed positions as shown. Circles C and D are free to move.
(a) Redraw circle C when it has been moved to position C1 and is in contact with circles A and B.
(b) Redraw circle D when it has been moved to position D1 and is in contact with circle B and the line RS.
(c) Show all points of contact.
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)