AN ROINN OIDEACHAIS

(Department of Education).

BRAINSE AN MHEÁN-OIDEACHAIS (Secondary Education Branch).

INTERMEDIATE CERTIFICATE EXAMINATION, 1930.

MECHANICAL DRAWING AND DESIGN.

WEDNESDAY, 18th JUNE.

AFTERNOON, 4 TO 6 P.M.

Note.—The use of mathematical instruments, protractors, scales, T- and set-squares, and drawing-boards is allowed.

All construction lines must be clearly shown.

The number of the question must be distinctly marked by the side of each answer; both sides of the paper may be used.

Questions marked (*) have accompanying diagrams.

Q. 1. At the top of your drawing-paper, and 1½ inches high draw with pencil, pen, or brush one of the following words:—

The word Snam in Gaelic letters.

Or,

The word SWIM in Roman letters.

[10]

*Q. 2. A sketch is given of a square prism on top of a square slab.

Draw the plan and elevation when the sides of the slab are inclined to the vertical plane at equal angles.

Measurements:—Slab, 2 inches by 1 inch; prism, 1½ inches by 1 inch. [12]

*Q. 3. The egg-cup and egg-shape are made up of arcs of circles and straight lines.

Draw to the given dimensions. Your method of finding centres must be clearly indicated. [9]

- *Q. 4. Set out the given pattern to the dimensions shown. [10]
- *Q. 5. The front and end Elevations of a stone cross are given. Draw the front elevation and plan. Scale ½-inch to one foot. An ordinary divided rule may be used as a scale. [12]
- Q. 6. Make a design to occupy a regular hexagon of 3-inch side.

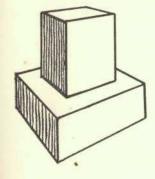
The design may be composed of any type of ornament with which you are familiar, and may be finished in colour or in black and white. [22]

Or,

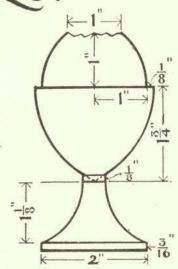
Make a design for an All-over repeating pattern based on squares of 3-inch sides.

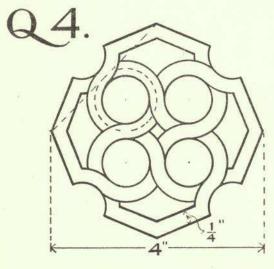
The design may consist of Geometric and free-drawn forms combined or of Celtic ornament. Two tones of colour may be used and two repeats shown. [22]

Q2.



Q3.





Q5.

