AN RÓINN OIDEACHAIS

(Department of Education).

ÉARAINSE AN MHEÁN-OIDEACHAIS
(Secondary Education Branch).

INTERMEDIATE CERTIFICATE EXAMINATION, 1933.

MECHANICAL DRAWING
AND DESIGN.

WEDNESDAY, 21st 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.

The number of marks assigned to each question is stated in brackets after the question.

Q. 1. Draw with pencil, pen or brush in Gaelic letters \( \frac{1}{2} \) inch high, the word \textit{pite}

\textit{Or}:

In Roman letters \( \frac{3}{4} \) inch high, the word \textit{POET}. [8]

*Q. 2. Copy the given pattern to the dimensions indicated. [10]

*Q. 3. Draw, to a scale of 1 inch to 1 foot, the diagram of a window-sash to the measurements shown.
An ordinary divided rule may be used as a Scale. [11]

*Q. 4. Draw the given diagram of a bellows using the figured dimensions. Show clearly how all the points of contact are determined. [10]

*Q. 5. A perspective drawing is given of a night-light resting on an open match box. Draw full size to the dimensions shown either the plan or elevation. [14]

Q. 6. Draw a design to suit a square of 4\( \frac{1}{2} \) inches side. You may select any style of ornament, and finish the design in black and white or in two colours.

\textit{Or}:

Draw a design to occupy a semicircle of 5\( \frac{1}{2} \) inches diameter. The design must be Celtic or Floral in treatment. Two tones of one colour may be used, or the design may be finished in black and white. [22]