

AN ROINN OIDEACHAIS

(Department of Education).

BRAINSE AN MHEAN-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 $\frac{3}{4}$ inch high, the word **pìle**

Or:—

In Roman letters $\frac{3}{4}$ inch high, the word **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]

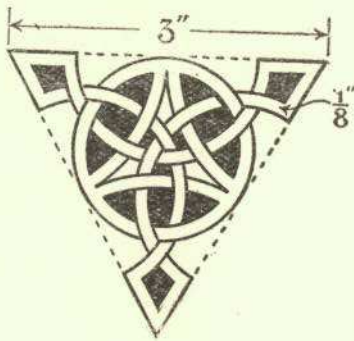
*Q. 5. A perspective drawing is given of a night-light resting on an open match box. Draw full size to the dimensions shown either the plan or elevation. [14]

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.

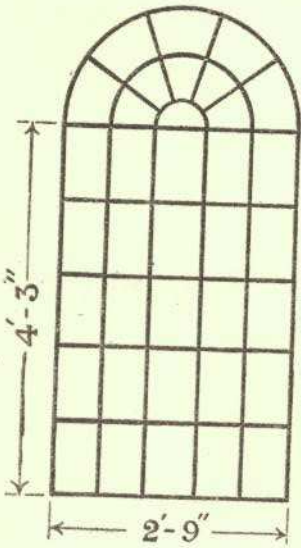
Or:—

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]

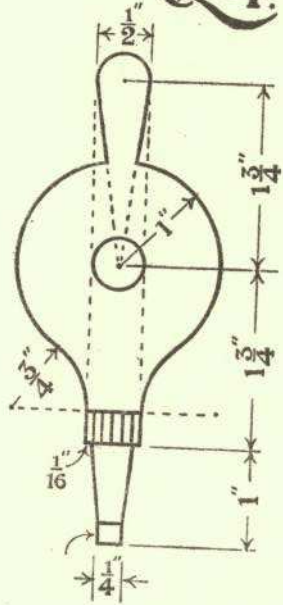
Q2.



Q3.



Q4.



Q5.

