

AN ROINN OIDEACHAIS.

(Department of Education).

BRAINNSE AN MHEADHON-OIDEACHAIS

(Secondary Education Branch).

INTERMEDIATE CERTIFICATE EXAMINATION, 1939.

**MECHANICAL DRAWING
AND DESIGN.**

TUESDAY, 20th JUNE.—AFTERNOON 4 TO 6 P.M.

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

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.

ONLY FOUR questions to be attempted. TWO from SECTION A, and TWO from SECTION B.

SECTION A.

Two questions only to be attempted in this Section.

(The work in this Section must be accurate and must be executed with the aid of drawing instruments. All lines used in construction should be clearly shown.)

Q. 1. Draw with pencil, pen or brush, in Gaelic letters one inch high the word **toinseas**.

Or

In Roman letters one inch high the word **SHIPPING**.

[14]

*Q. 2. Copy the pattern shown in the diagram to the dimension indicated.

[14]

*Q. 3. A perspective drawing is given of a funnel. Draw full-size to the dimensions shown, a plan and elevation.

[14]

SECTION B.

Two questions only to be attempted in this Section.

*Q. 4. Draw a design to fill the shape shown on the diagram. You may select any style of ornament, and finish the design in two or three colours or in black and white.

[24]

Q. 5. Draw a design to occupy a regular hexagon of 3 inches side. The design may be composed entirely of geometric forms, or of

geometric and free-drawn forms combined, or entirely of free forms.
Two tones of one colour may be used, or the design may be finished
in black and white.

[23]

Q. 6. Make a design to occupy a rectangle $3\frac{1}{2}$ inches by 6 inches.
You may select any style of ornament and finish at least half the
design in colour.

(Colour MUST be used in answering this question.)

[23]

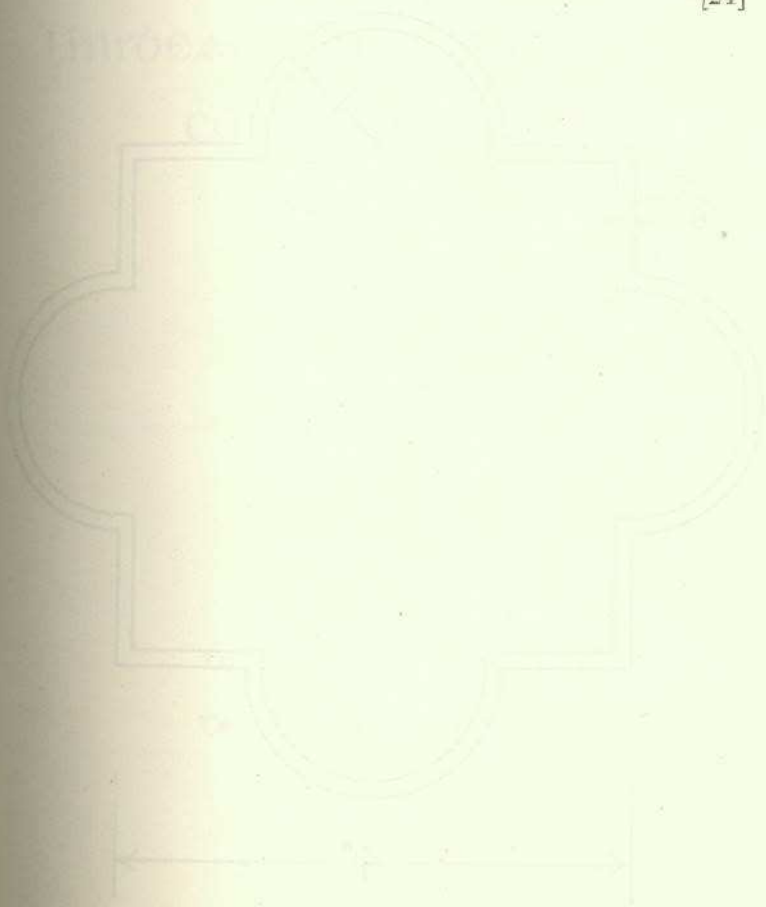
Q. 7. Make a design for a repeating circular border $1\frac{3}{4}$ inches wide.
The radius of the outer circle to be $3\frac{1}{2}$ inches.

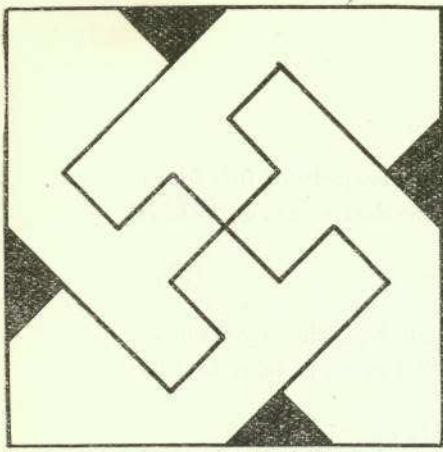
The design must be Celtic or Floral in treatment.

Complete one repeat in colour and show the main lines of the
adjacent repeats.

(Colour MUST be used in answering this question.)

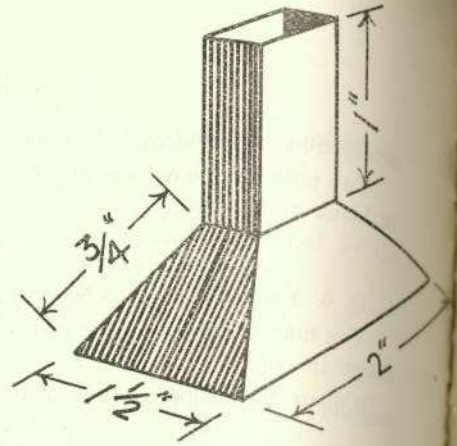
[24]



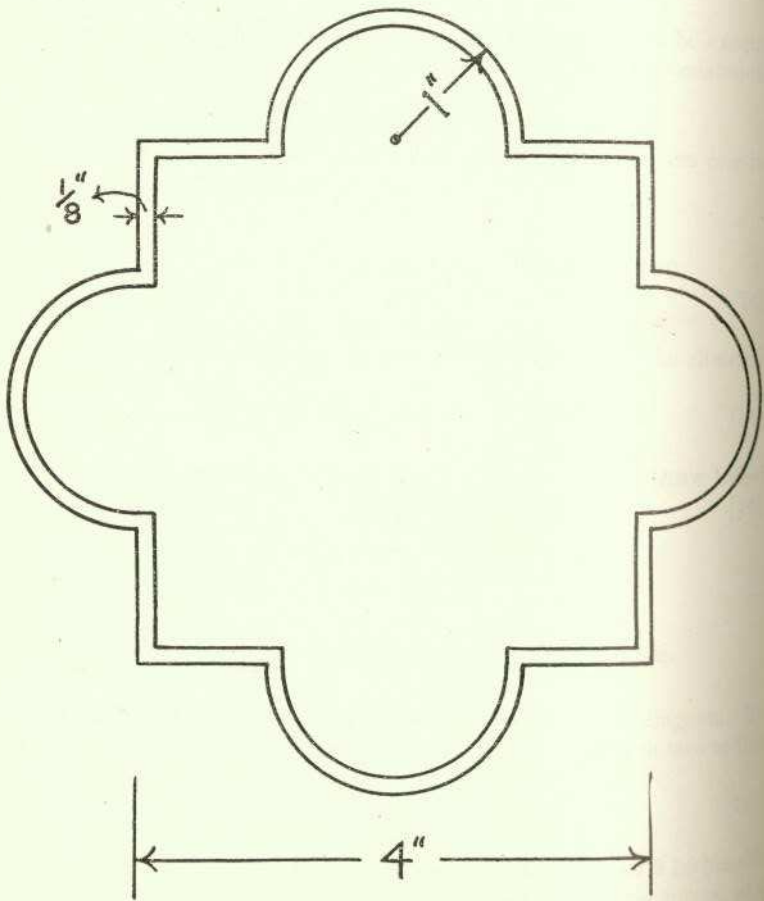


$2 \frac{5}{8}$ "

Q. 2.



Q. 3.



Q. 4.