

AN ROINN OIDEACHAIS  
(Department of Education).

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LEAVING CERTIFICATE EXAMINATION, 1949.

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MECHANICAL DRAWING AND DESIGN.  
COURSE B—PASS—BOYS AND GIRLS.

SATURDAY, 18th JUNE.—MORNING, 10 TO 12.

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**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.

**ONLY THREE** questions to be attempted, not more than two of which are to be taken from Section A or Section B.

All questions carry equal marks.

100 marks allotted to this Paper.

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SECTION A.

(The questions in this Section must be solved accurately with the aid of drawing instruments. All lines used in construction should be clearly shown.)

\* 1. Draw the diagram to the dimensions given and within it draw in suitable proportions the words "SIOPA NA mBLAIC" in Gaelic letters, or the words "THE FLOWER SHOP" in Roman letters.

\* 2. The plan and elevation of a weather-vane are given. Draw a new elevation on X<sup>1</sup> Y<sup>1</sup>.

\* 3. The diagram shows a hexagonal Table-mat. Draw the diagram full-size to the dimensions shown.

\* 4. An outline dimensioned diagram of the "Fleur-de-lis" is given. Draw the diagram full-size to the dimensions indicated.

\* 5. Draw with instruments the geometrical basis on which the given repeating pattern is constructed.

It will be sufficient to complete *half* the diagram.

## SECTION B.

6. Draw a design for a Strip-poster to advertise "POTTERY."

The design is to be rectangular in shape 3 inches by 7 inches (horizontal). Simple "One-stroke" lettering may be used to indicate the title or announcement.

(Colour MAY be used in answering this question.)

7. Draw a design for a Perambulator (Pram) cover, 3 feet by 2 feet.  
Scale:  $\frac{1}{4}$  full-size.

The design should be suitable for Embroidery, Appliqué or Stencilling.

(Colour MAY be used in answering this question.)

8. Draw a design to occupy an equilateral triangle of 5 inches side.

Your design may be composed of Floral or Geometric ornament.

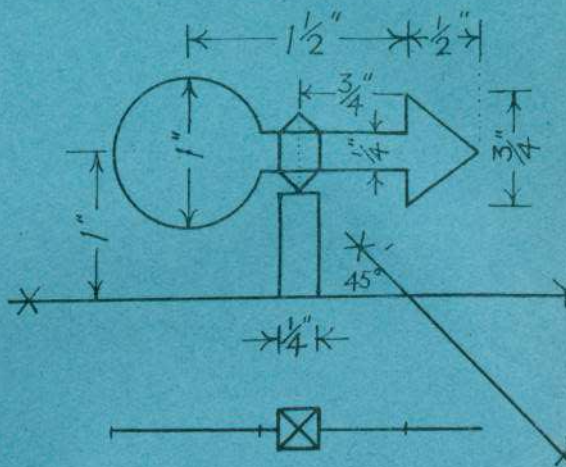
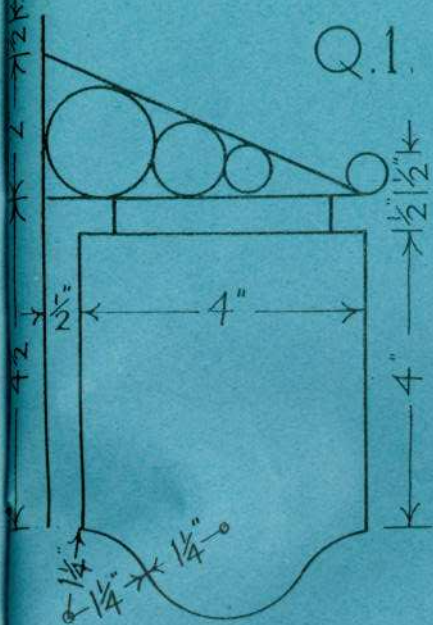
(Colour MAY be used in answering this question.)

9. Draw a design for an "all-over" repeating pattern based on regular hexagons of 2 inches side.

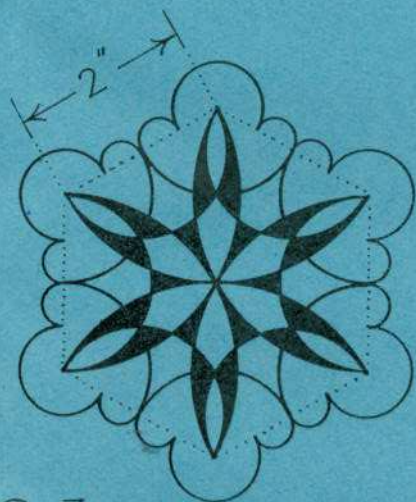
One repeat should be completed, in two colours, or in black and white, and the main lines of the adjacent repeats should be indicated to show the continuity of the pattern.

Any style of ornament may be used.

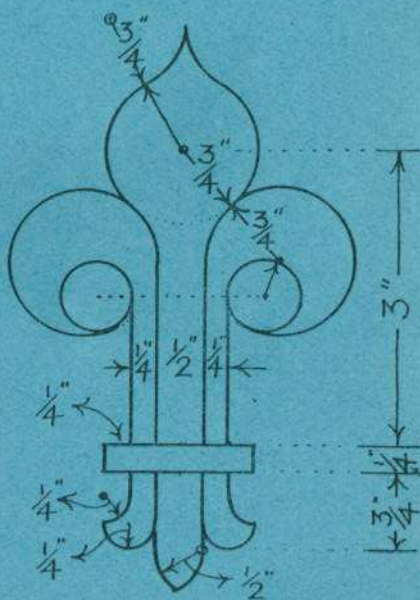
Q.1.



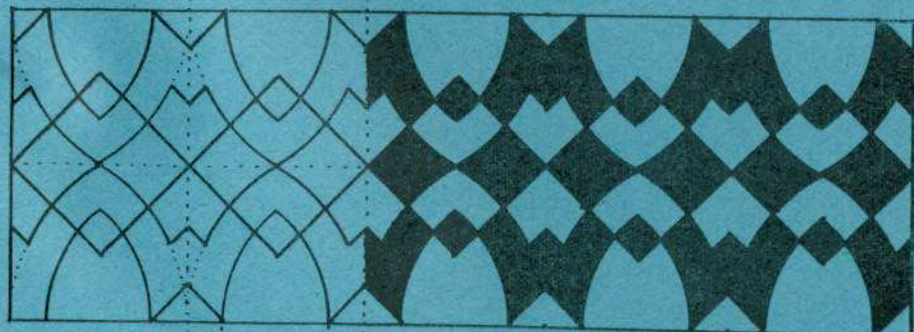
Q.2.



Q.3.



Q.4.



$\leftarrow \frac{1}{4} \rightarrow$

Q.5.