

AN ROINN OIDEACHAIS
(Department of Education).

LEAVING CERTIFICATE EXAMINATION, 1949.

MECHANICAL DRAWING AND DESIGN.

Course B—Honours.

BOYS AND GIRLS.

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

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 may be attempted, of which not more than two are to be taken from SECTION A, or SECTION B.

All questions carry equal marks.

100 Marks allotted to this Paper.

SECTION A.

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

* 1. Draw with instruments the geometrical basis on which the given repeating border pattern is constructed.

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

* 2. The diagram shows the plan and elevation of a Winged-nut. Draw a new elevation of the diagram on a vertical plane represented in plan by $X^1 Y^1$.

* 3. The diagram represents an ornamental brooch. Draw the diagram full-size to the dimensions shown.

* 4. Copy the ornament shown on the diagram full-size, according to the dimensions indicated.

SECTION B.

* 5. Draw a design for a panel in the form of a diamond. The diagonals are to be 5 inches and 7 inches respectively. The design must be based on the plant (Fuschia) illustrated on the diagram.

[Colour MAY be used in answering this question.]

6. Draw a design for a Poster or Showcard to advertise "PERFUME." The design is to be rectangular in shape, 4 inches by 6 inches (vertical).

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 square Napkin or Serviette of 14 inches side. The design should be suitable for Embroidery or Damask Weaving, and may include an Initial-letter, or Monogram.

Scale : $\frac{1}{2}$ full-size.

(Colour MAY be used in answering this question.)

8. Draw a design for the decoration of a Bellows.

The design is to occupy a circle of 5 inches diameter, and should be suitable for Woodcarving, Painted Wood, Leathercraft or Metalwork.

[Colour MAY be used in answering this question.]

