

AN ROINN OIDEACHAIS
(Department of Education).

LEAVING CERTIFICATE EXAMINATION, 1950.

MECHANICAL DRAWING AND DESIGN.

Course B—Honours.

BOYS AND GIRLS.

FRIDAY 16th 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. An ornamental border is shown on the diagram. Draw two repeats of the border according to the figured dimensions.

*2 The diagram shows the plan and elevation of a sailing-boat. Draw a new elevation of the diagram on a vertical plane represented in plan by X'Y'.

*3. The diagram represents a mirror frame. Draw the diagram full-size to the dimensions shown. Show clearly how the points of contact are determined.

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

SECTION B.

*5. Draw a design for the lid of an oblong box for toilet soap. The design is to occupy a rectangle, $5\frac{1}{2}$ inches long by 3 inches wide, and must be based on the plant (nasturtium) illustrated in the diagram.

(Colour MAY be used in answering this question.)

6. Draw a design for a strip-poster to advertise "GAMES," (Draughts, Chess or Ludo). 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 the decoration of a table-centre.

The design may be any ornamental shape 10 inches by 15 inches outside measurement, including edging or fringe, and suitable for Leathercraft, Embroidery, Weaving, Appliqué, or Stencilling.

Scale : $\frac{1}{3}$ full-size.

(Colour MAY be used in answering this question.)

8. Draw a design for an "All-Over" pattern based on a diamond shape, the diagonals of which are 4 inches and $2\frac{1}{2}$ inches respectively.

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.

