

AN ROINN OIDEACHAIS

(Department of Education).

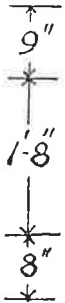


BRAINSE AN MHEADHON-OIDEACHAIS

(Secondary Education Branch).

23.

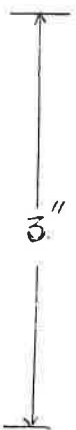
INTERMEDIATE CERTIFICATE EXAMINATION,
1925.



MECHANICAL DRAWING
AND DESIGN.



TUESDAY, 23RD 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 questions to be attempted.

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.

Q. 1. Draw the words and figures 'June, 1925,' or the word 'Ἰουνίου,' half an inch high at the middle of the top of your drawing paper.

*Q. 2. A diagram of a key-hole guard is given. Draw full size to the dimensions shown.

*Q. 3. An outline dimensioned diagram of a door is given. Draw to a scale of $\frac{3}{4}$ inch to 1 foot the elevation of the door when it is open at an angle of 30° as shown on plan. The scale is to be drawn, divided, and numbered for use in making the drawing.

*Q. 4. Draw the given pattern according to the dimensions shown.

*Q. 5. The plan of a hexagonal pyramid two inches high, resting on its apex, is given. It is cut by a vertical plane *AB* as shown on plan. Draw the elevation full size showing the section.

DESIGN.

Q. 6. Draw a design for an all-over pattern based on the square or equilateral triangle. It may be composed entirely of geometric forms, or of geometric and free-drawn forms combined. At least three units of repeat to be shown.

Or—

Draw a design to suit a semi-circle of nine inches diameter. It may be based on Celtic ornament, or on natural forms ornamentally treated.

