

AN ROINN OIDEACHAIS.

AN BRAINSE GAIRM-OIDEACHAIS.

CERTIFICATE EXAMINATIONS
for
DAY VOCATIONAL COURSES, 1950.

MECHANICAL DRAWING.

Tuesday, 27th June, 10—12.30 p.m.

INSTRUCTIONS :

(a) Not more than *four* questions may be attempted, *two* of these must be selected from Section A and *two* selected from Section B. Draw questions from Section A on one sheet of paper and questions from Section B on a separate sheet.

(b) A maximum of 10 marks will be awarded for accuracy and neatness of arrangement.

(c) The number of the question must be distinctly marked by the side of each answer.

(d) Work on one side of the paper only.

SECTION A.

1. Fig. 1 shows a pictorial view of a bracket. Draw full size from this view :—

- (a) a front elevation looking in direction of arrow A ;
- (b) an end elevation looking in direction of arrow B ;
- (c) a plan projected from the front elevation.

Insert 5 of the main dimensions.

2. Fig 2 shows elevation and plan of a sphere and an equilateral triangular prism. Reproduce these two views full size and show (looking in direction of arrow) a section end elevation cut by the vertical plane AA.

3. Convert the orthographic drawing, Fig. 3, into a pictorial drawing using either oblique or isometric projection. Full size.

4. Draw full size the development of the two pieces of the spent match holder shown in Fig. 4.

Back plate is flat and the front semi-conical.

(Development of cone.)

SECTION B.

5. Draw full size the outline of the front of the try square as shown (Fig. 5). Constructions to be shown.

(Angles in a semi-circle.)

6. Draw the geometrical design Fig 6. Bands are all $\frac{1}{4}$ " wide.

(Outline is based on an equilateral triangle.)

7. Fig 7 shows a part of an ornamental iron gate. Draw this view full size. Show clearly all construction lines. No marks given for guess work.

(Lines and circles touching.)

8. (a) Construct a scale, $1'' = 100$ feet, to read up to 500 feet by units of 25 feet.

(b) Draw the triangular plot of ground ABC (Fig. 8) to this scale ($1'' = 100$ feet).

(c) Construct a right-angled triangle to the same scale, having the same base AB and to have the same area as the triangle ABC.

(d) Measure the hypotenuse of the new triangle.

(Properties of equal triangles.)

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