

DAY VOCATIONAL CERTIFICATE EXAMINATIONS, 1976

MECHANICAL DRAWING

WEDNESDAY, 16 JUNE, 9.30 - 12 noon

INSTRUCTIONS

- (a) Not more than four questions may be attempted; two of these must be selected from Section 1 and two from Section 2.
- (b) Question No. 1 is compulsory and candidates may choose either 1(A) or 1(B).
- (c) The number of the question must be distinctly marked by the side of each answer.
- (d) All questions carry equal marks; a maximum of five marks will be awarded for accuracy and neatness of arrangement in respect of each question.
- (e) Work on one side of the paper only.
- (d) Examination Number must be distinctly marked on each sheet of paper used.

SECTION 1

Candidates may select either 1(A) or 1(B) and one other question from this Section

1. (A) The drawing represents a Woodwork Joint. Make a full-size dimensioned drawing of the assembled joint showing:-
  - (a) a front elevation looking in the direction of arrow A;
  - (b) an end elevation looking in the direction of arrow B;
  - (c) a plan projected from (a).Letter the title of each view neatly.

OR

1. (B) The drawing represents a metalwork project. On the squared paper supplied, draw freehand, approximately full size and in good proportion the following:
  - (a) A front elevation looking in the direction of arrow A.
  - (b) An end elevation looking in the direction of arrow B.
  - (c) A plan projected from (a).Insert six dimension lines on your drawing and letter the title of each view.

2. The elevation (A) and incomplete plan of a square pyramid are shown in fig. 2. The pyramid is cut by an inclined plane as shown in elevation. Draw full size:
  - (a) the given front elevation (A);
  - (b) the plan (complete);
  - (c) the sectional end elevation looking in the direction of arrow (C);
  - (d) a true shape of the sectional cut; projected from the elevation (A).Index the sectional surface in all views.

3. Fig. 3 shows a pictorial view and a plan of a shaped block. Draw full size:
  - (a) the plan (A) as given;
  - (b) the front elevation projected from the plan;
  - (c) the end elevation looking in the direction of arrow (D).Index points a, b, c, d, in all views.

4. Draw full size, in either isometric or oblique projection, the exercise shown in fig. 4.

SECTION 2

(Answer two question from this section)

5. Fig. 5 shows the outline of a scale where 147 millimetres represents 4 metres. Construct this scale to read metres and decimetres. Using the scale draw full size the figure shown. Measure on your drawing and record angle ABC and length of side BC. (Show full construction).

6. Reproduce full size the figure shown in fig. 6. Full construction must be clearly shown.

7. Draw fig. 7 to the dimensions given. The diameters of circles A, B, C, are in the ratio of 3 : 2 : 2 respectively. Show full geometrical construction and points of contact.

8. To the dimensions given draw the elliptical sign and bracket shown in fig. 8. Full construction must be clearly shown.

ROINN 1  
(SECTION 1)

ROINN 2  
(SECTION 2)

