Technical Drawing Ordinary Level

LEAVING CERTIFICATE EXAMINATION, 1985

TECHNICAL DRAWING - ORDINARY LEVEL - PAPER II (B)

BUILDING APPLICATIONS

THURSDAY, 27 JUNE, MORNING 9.30 to 12.30

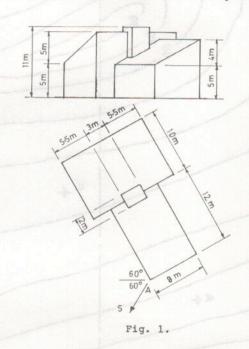
(200 MARKS)

INSTRUCTIONS

(a) Answer four questions.
(b) All questions carry equal marks.
(c) Construction lines must be shown on all solutions.
(d) Write the number of the question, distinctly, on the answer paper.
(e) First or third angle projection may be used.
(f) All measurements are given in metres or millimetres.

1. Fig. 1 shows the outline plan and elevation of a building. Draw a perspective view of the building when the position of the spectator is 20 m from corner A, the picture plane touching the corner A and the horizon line 5 m above the ground line.

Scale 1 : 200



- Fig. 2 shows the outline plan of a roof. All the surfaces have a pitch of 30°.
 - (a) Draw the plan and project the elevation.
 - (b) Develop the surfaces A, C and D.
 - (c) Find the dihedral angle between the surfaces A and B.

Scale 1 : 100

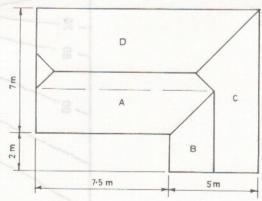
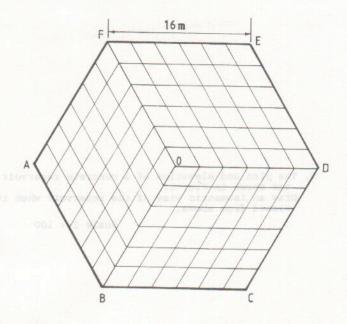


Fig. 2.

- 3. Fig. 3 shows the outline plan of three adjoining hyperbolic paraboloid roof surfaces. The roof perimeter is a regular hexagon in plan. A, B, C, D, E and F are 2.5 m above ground level and 0 is 10 m above ground level.
 - (a) Draw the plan of the roof and project the elevation.
 - (b) Show the curvature of the roof along the diagonal DF.

Scale 1 : 200



4. Fig. 4 shows the plan and elevation of a shelter. Draw the given views and show the shadows cast when the direction of the light is as shown.
Scale 1:50

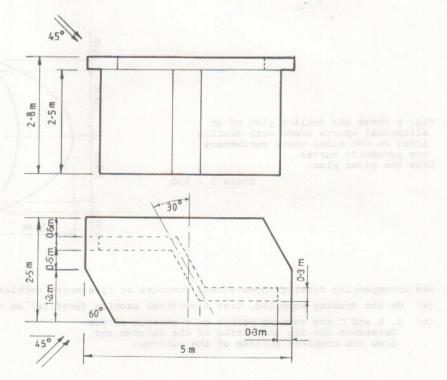


Fig. 4.

em 4 30°

5. The plan and elevation of a concrete reservoir are shown in Fig. 5. Draw an isometric view of the reservoir when it is viewed from above.

Scale 1 : 100

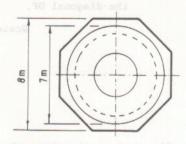
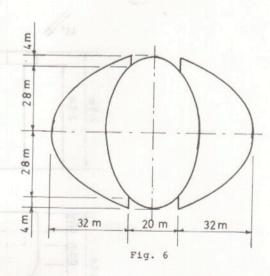


Fig. 5.

6. Fig. 6 shows the outline plan of an elliptical sports arena with seating areas on two sides whose perimeters are parabolic curves. Draw the given plan.

Scale 1 : 500



- 7. The accompanying drawing shows ground contours at five-metre vertical intervals on a map.
 - (a) On the drawing supplied, draw a vertical section (profile) on the line DE.
 - (b) A, B and C are outcrop points on a stratum of ore.

 Determine the dip and strike of the stratum and draw the complete outline of the outcrop.

SCRÚDUIMHIR EXAMINATION NO.

