

**B**

**JUNIOR CERTIFICATE EXAMINATION, 2001**

**TECHNICAL GRAPHICS — ORDINARY LEVEL**

**THURSDAY 14 JUNE - MORNING, 9.30 — 12.00**

**SECTION B — 280 MARKS**

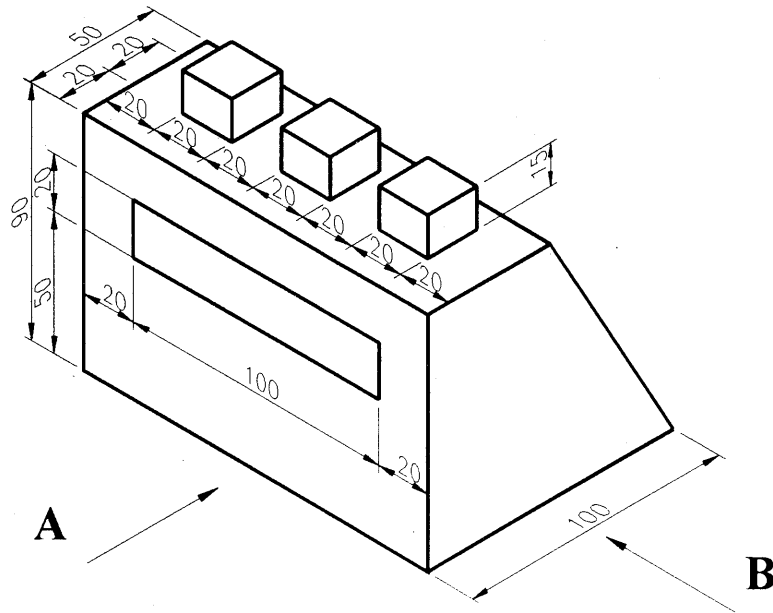
**INSTRUCTIONS FOR SECTION B**

- (a) **Any four questions to be answered.**
- (b) **All questions in this section carry equal marks.**
- (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.**
- (e) **Examination number must be distinctly marked on each sheet of paper used.**



**SECTION B** (ANSWER ANY FOUR QUESTIONS - ALL QUESTIONS CARRY EQUAL MARKS)

1



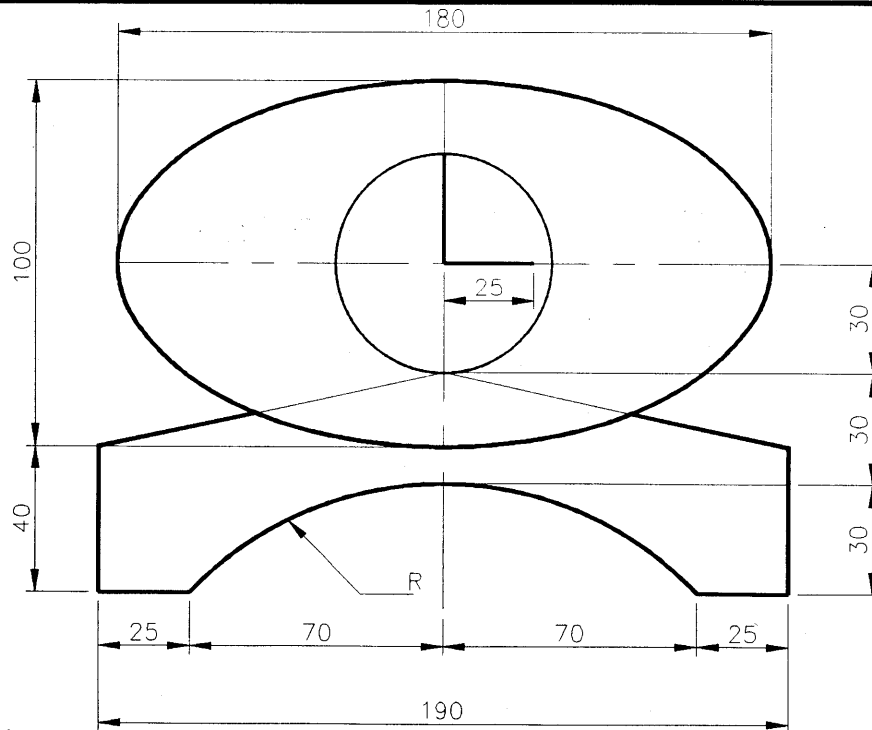
The figure shows the outline of a **RADIO**.

Draw :-

- (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 the front elevation.

Insert any **FOUR** dimensions.

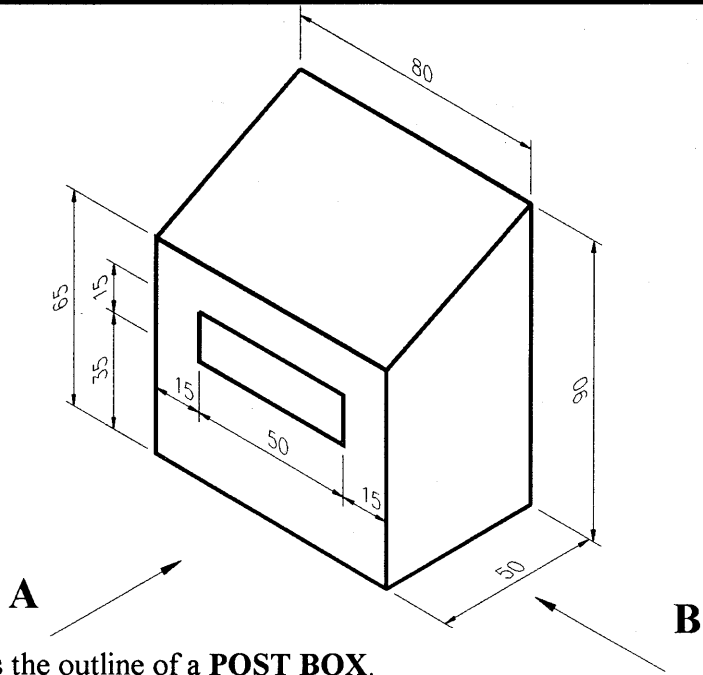
2



The figure shows the design of a **CLOCK** containing an ellipse, with Major and Minor Axes 180 and 100 respectively.

Draw the given design showing clearly all construction lines.

3

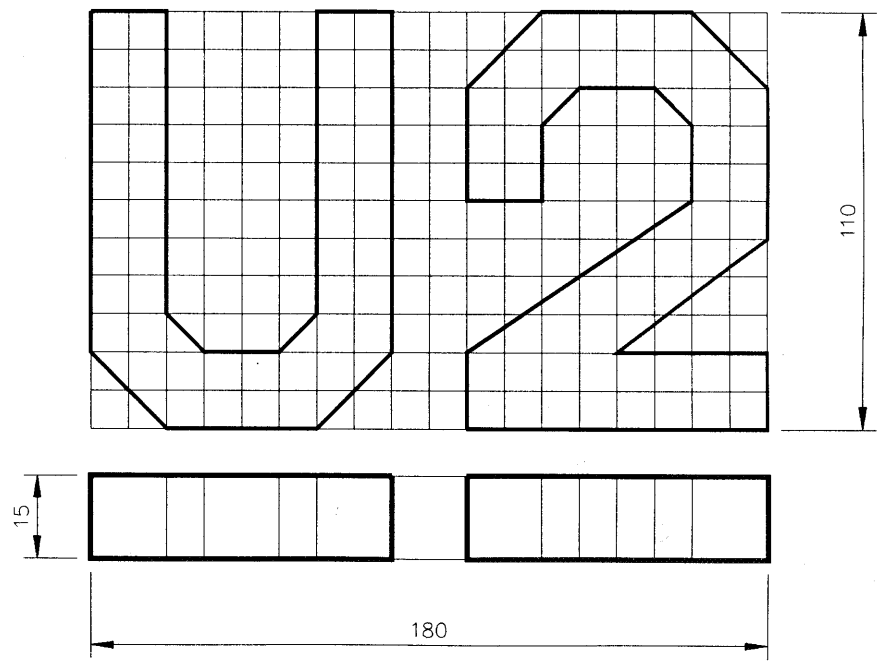


The figure shows the outline of a **POST BOX**.

Draw the following views :-

- (a) A front elevation looking in the direction of arrow A.
- (b) An end elevation looking in the direction of arrow B.
- (c) The **DEVELOPMENT** of the Post Box.

4



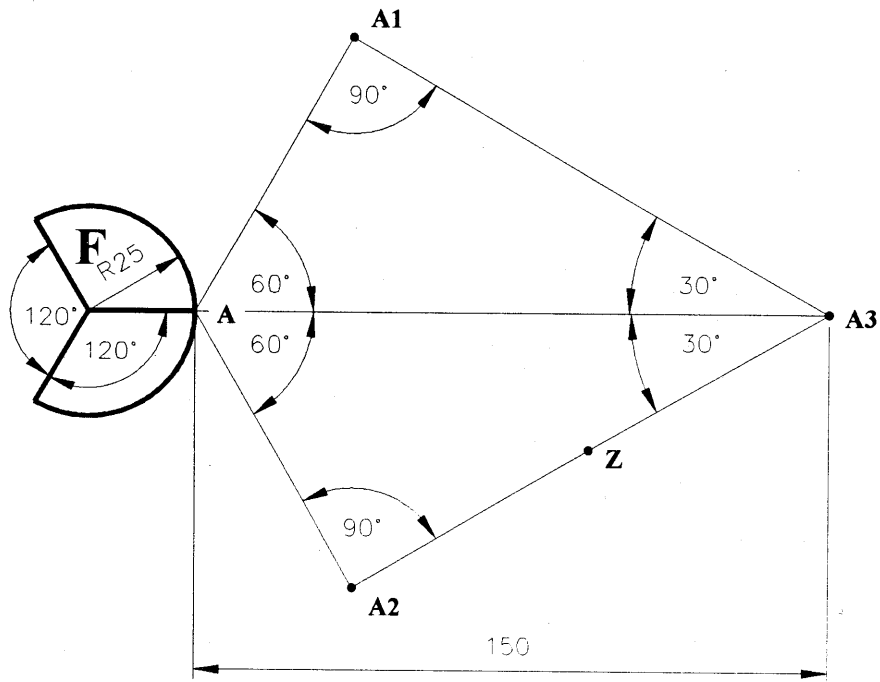
The figure shows a **LOGO** for the Rock Group **U2**. The grid is made up of 10mm squares.

Draw **ONE** of the following views :-

An **ISOMETRIC** view (a) **OR** an **OBLIQUE** view (b) of the LOGO.

**The solution must be presented on standard drawing paper.**

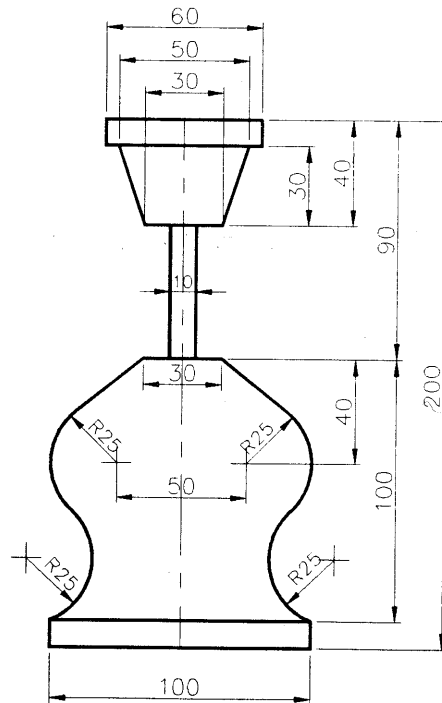
5



Draw the given figure **F**. Then locate the points **A1**, **A2** and **A3**, using the triangles shown. Find the image of the given figure **F** under the following transformations :-

- (a) From point **A** to **A1** by a **TRANSLATION**,
- (b) From point **A1** to **A2** by an **AXIAL SYMMETRY** in the line **A — A3**,
- (c) From point **A2** to **A3** by a **CENTRAL SYMMETRY** in the point **Z**.

6



A design for a **CEILING LIGHT** is shown. Draw the given design, showing clearly all constructions and points of contact.