



Junior Certificate Examination 2008

Technical Graphics
Ordinary Level
Section B
(280 marks)

Monday, 16 June
Morning 9:30 - 12:00

Instructions

- (a) Answer **any four** questions. All questions carry equal marks.*
- (b) The number of the question must be distinctly marked by the side of each answer.*
- (c) Work on **one side** of the drawing paper only.*
- (d) Write your examination number on each sheet of paper used.*

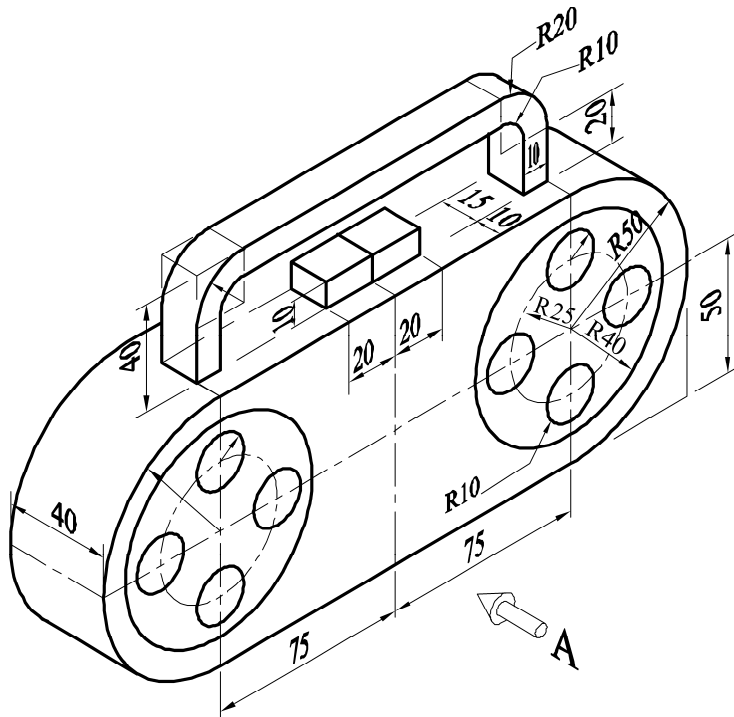
SECTION B. Answer **any four** questions. All questions carry equal marks.

1 The figure shows the outline of a **small radio**.

Draw:

- (a) A front elevation in the direction of the arrow **A**.
- (b) A plan projected from the front elevation.

Insert **any four** dimensions.



2

The figure shows the design of a logo for a waiting room.

Draw the two large circles and then complete the given logo.

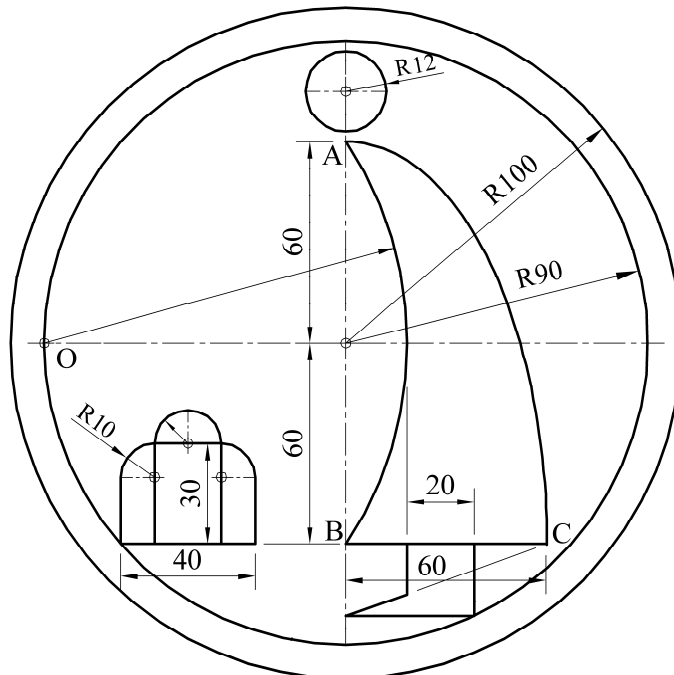
The curve **AC** is a quarter ellipse.

AB is half the **major axis** of the ellipse and is 120 mm long as shown.

BC is half the **minor axis** and is 60 mm long as shown.

The arc **AB** has its centre at **O** as shown.

Show clearly all construction lines.

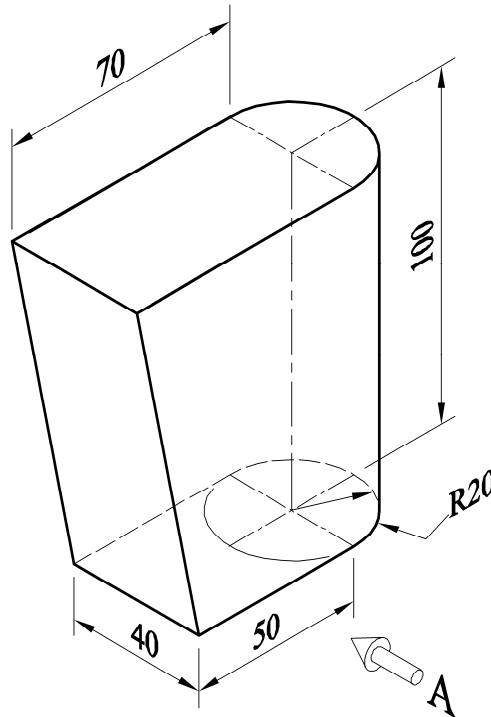


3

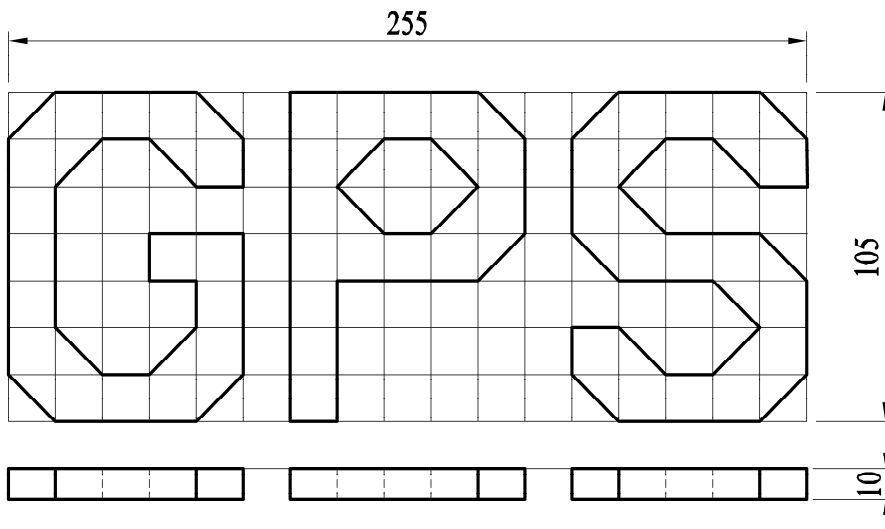
The figure shows the outline of an open container.

Draw:

- (a) A front elevation looking in the direction of arrow **A**.
- (b) A plan projected from the elevation.
- (c) The complete **surface development** of the open container.



4



The figure shows the elevation and plan of the initials of a satellite navigation system. The grid in elevation is made up of 15 mm squares.

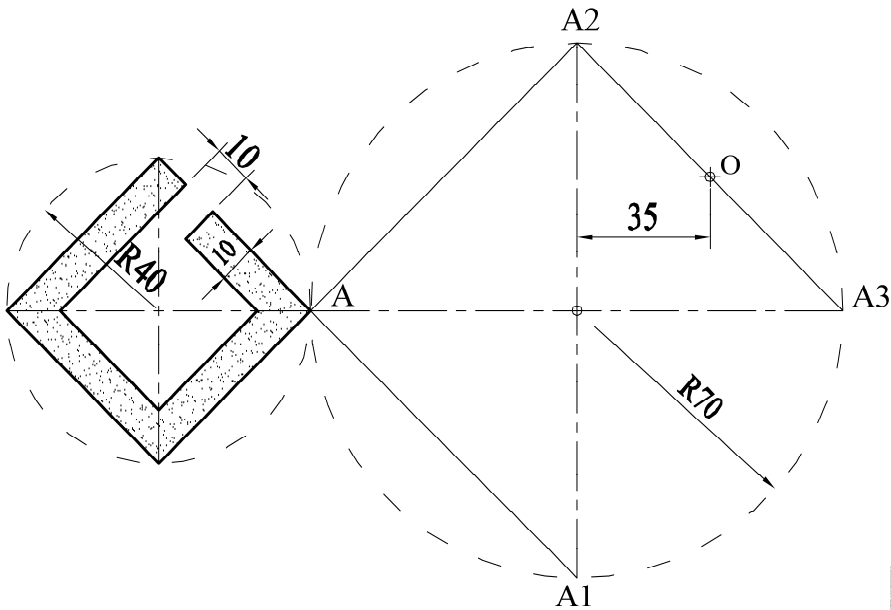
The width in plan is 10 mm as shown.

Draw **one** of the following views:

- (a) An **isometric** view;
- or**
- (b) An **oblique** view of the initials.

Note: The solution must be presented on standard drawing paper.

5



Draw the given figure.
Locate the points **A**, **A1**, **A2**, **A3** and **O**.

Find the image of the given figure 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 **O**.

6

The figure shows the design of a biscuit jar.

Reproduce the given design, showing clearly how to find the centres of the four circles.

Show all construction lines and points of contact.

