# JUNIOR LYCEUM ANNUAL EXAMINATIONS 2008

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Educational Assessment Unit

**FORM 4 (4th year) GRAPHICAL COMMUNICATION (Tech. Des.) Time 2 hours**

**Instructions**

- Write your name and class on all sheets.
- Attempt ALL questions.
- All answers are to be drawn accurately, with instruments, unless otherwise stated.
- All construction lines MUST be left on each solution to show the method employed.
- Drawing aids may be used.

**Information**

- All dimensions are in millimetres.
- Estimate any missing dimensions not given.
- Marks will be awarded for accuracy, clarity and appropriateness of construction.

**NAME** _____ **CLASS** _____

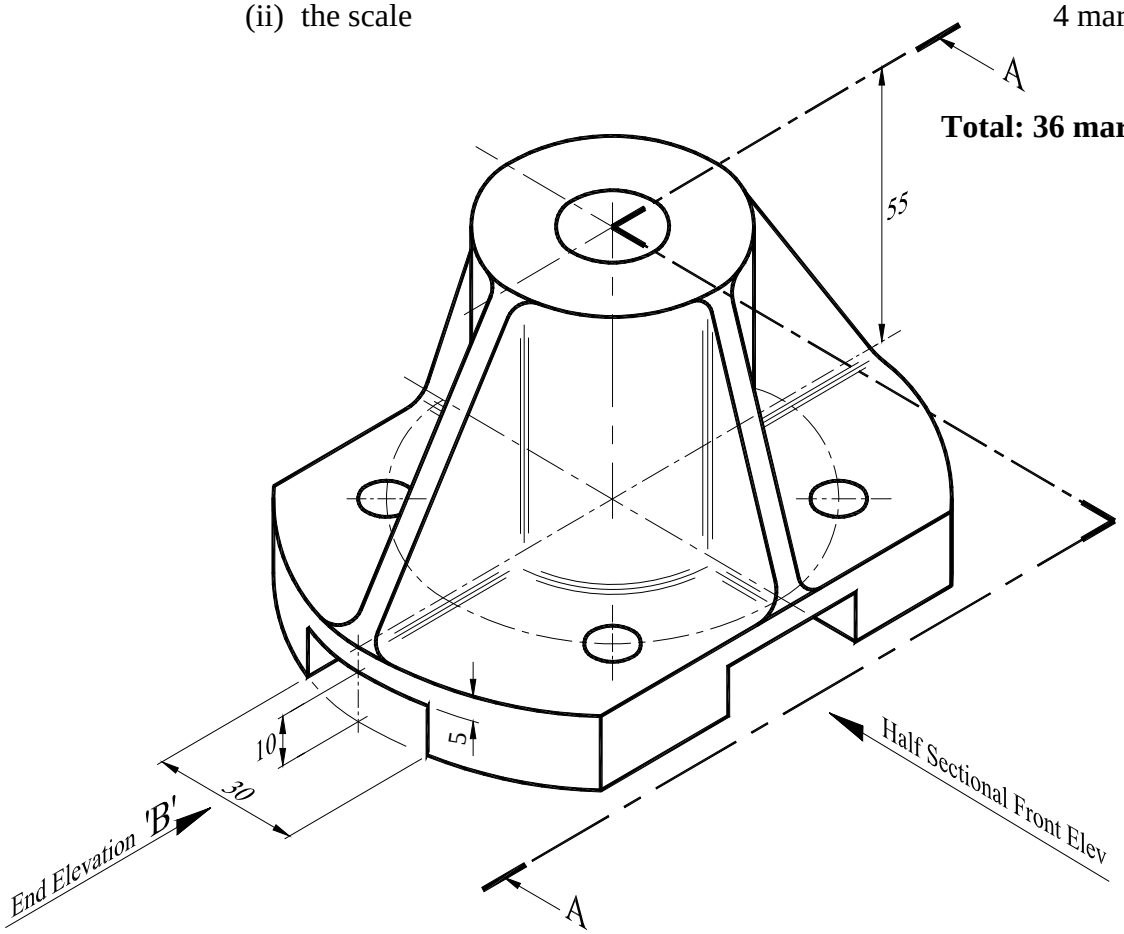
| Question | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Max. mark | **36** | **16** | **16** | **16** | **16** |
| Mark | | | | | |

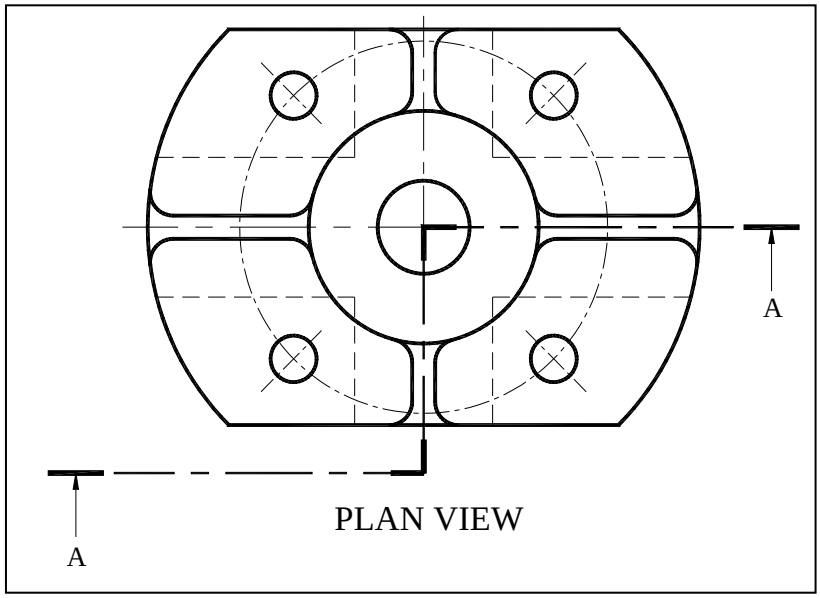
1. The figure below shows an isometric view of a **SUPPORT BRACKET**

   (a) Draw, full size, using first angle projection, the following views:
   (i) a half sectional front elevation on plane **A – A** ( **Note**: **the right hand half only to be in section**) 18 marks
   (ii) a complete end elevation as seen from direction of arrow **'B'** 14 marks

   (b) Add the following to your drawing:
   (i) the appropriate symbol to indicate the projection angle
   (ii) the scale 4 marks

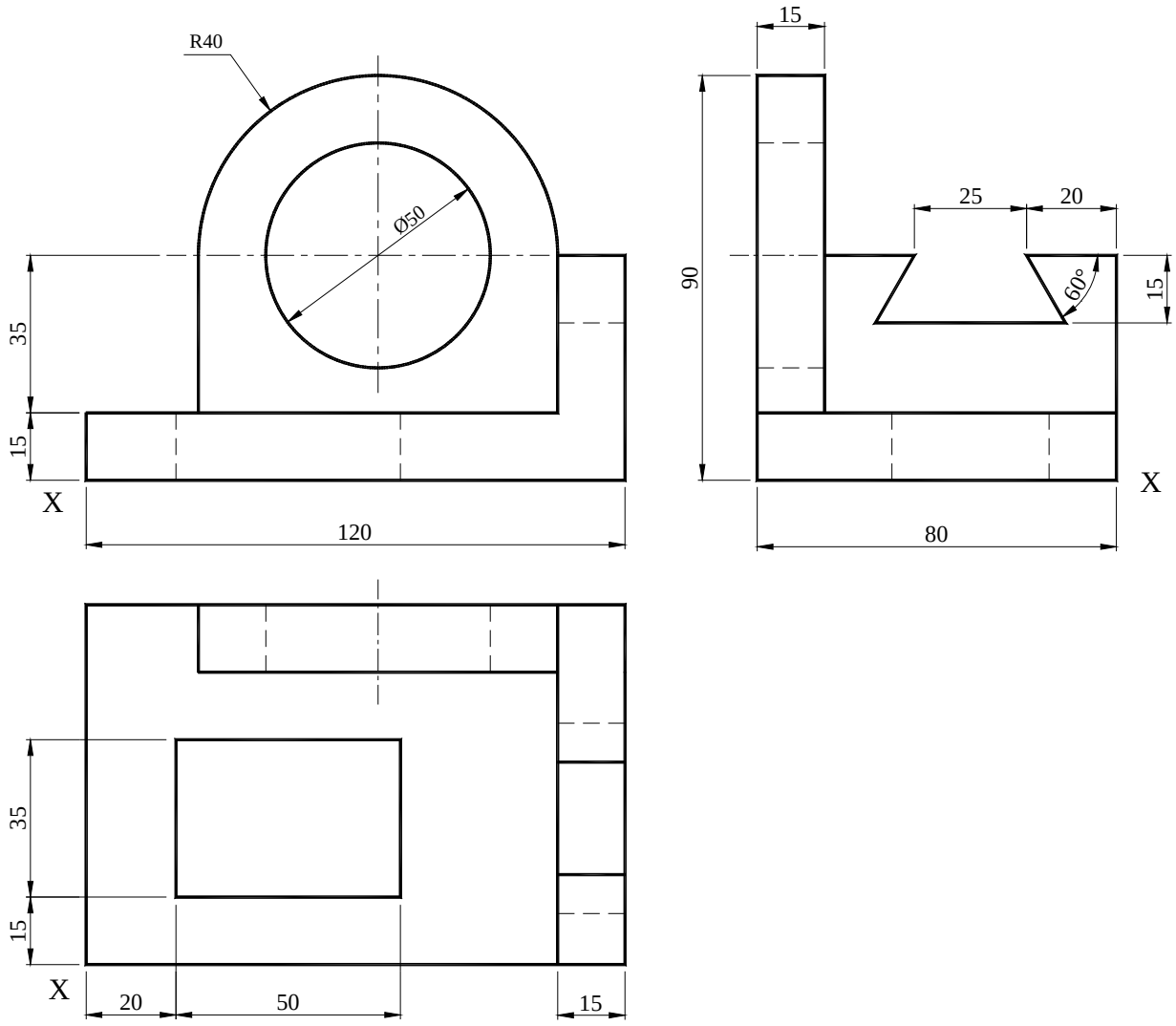
**Total: 36 marks**



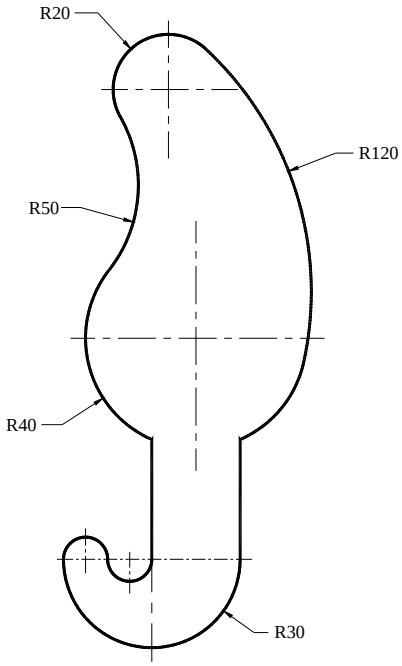
2. The figure below shows in first angle orthographic projection three views of an **Angle Block** which is part of a measuring instrument.
   Draw an Isometric view of the component, positioning corner '**X**' in the foreground.

16 marks



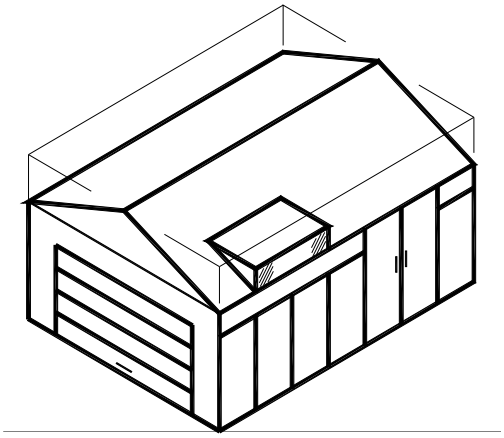
3. The drawing shows the outline of a logo for a manufacturer of musical instruments.
   On the given centre lines, draw, full size, the outline of the logo.
   Clearly show your construction for finding the centres of all blending arcs.
   **Note**: the drawing is not drawn to scale.

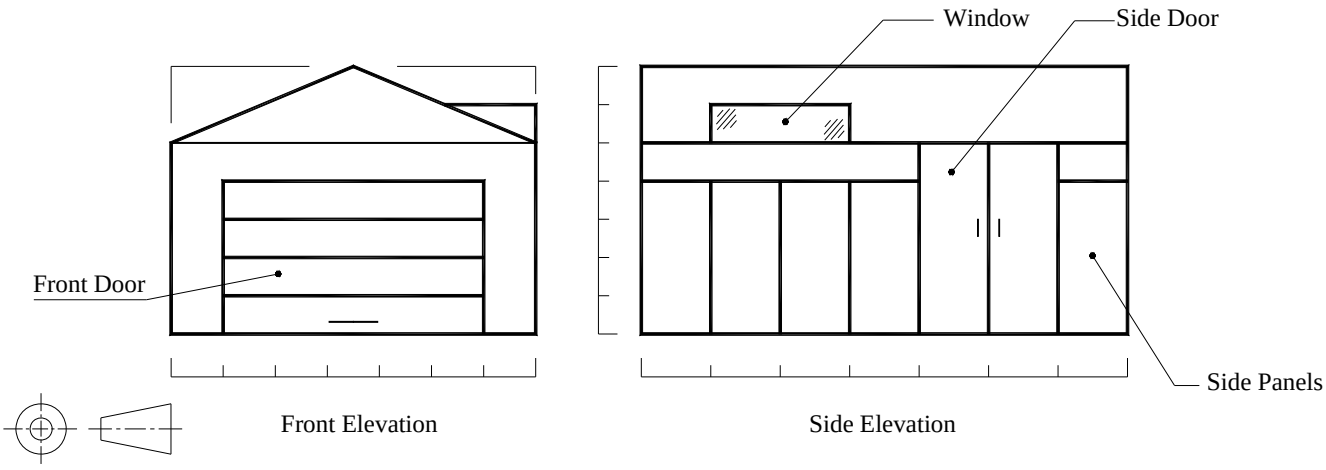
   16 marks




4. The drawings show a Front Elevation, a Side Elevation and an Isometric view of the main details of a Garage.
   The door on the front consists of four equal sized panels.
   The Side consists of seven equal sized panels, including the side door.
   Complete the **two** point estimated perspective view of the Garage, using the given VP's, and start lines.
   Use appropriate methods for:
   - i) the panels of the front door;
   - ii) the side panels including the door;
   - iii) the apex of the roof;
   - iv) the side window.

   Do not use colour or shading to your drawing. 16 marks





5. The figure shows the front elevation of a **Lobster – Back,** also called a **Segmental Bend**.
   Construct geometrically a complete development of **ONE** of the larger segments (shown as '**A**'), assuming the joint line to be along J - J.

16 marks