JUNIOR LYCEUM ANNUAL EXAMINATIONS 2008

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Educational Assessment Unit

FORM 4 (2nd 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** _____

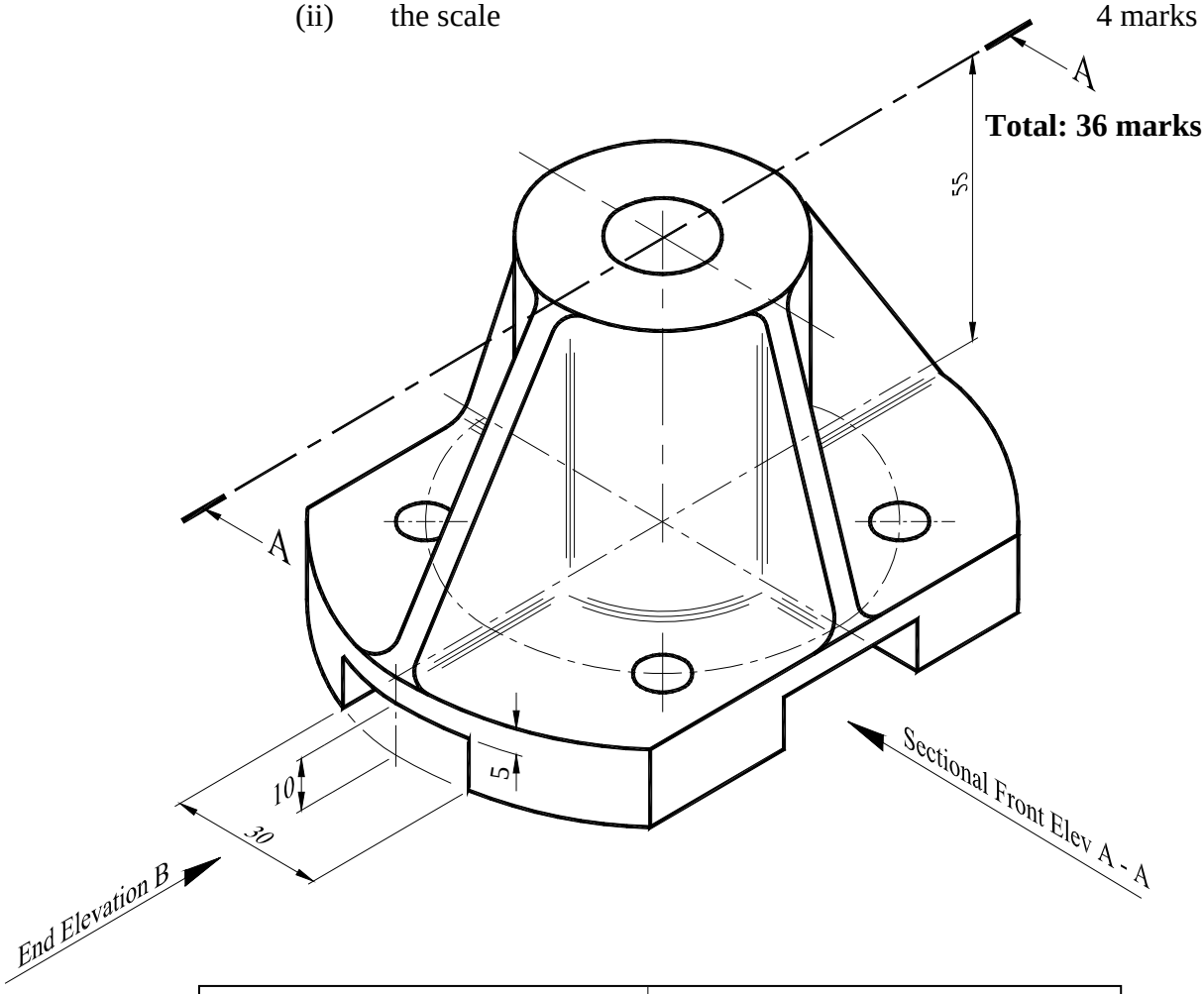
Question	**1**	**2**	**3**	**4**	**5**
Max. mark	36	16	16	16	16
Mark					

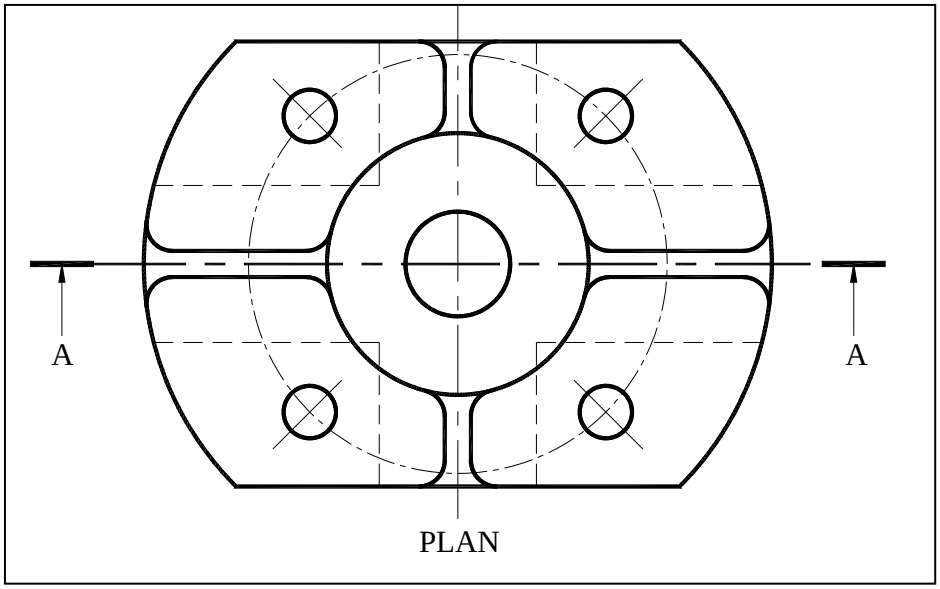
1. The figure below shows an isometric view of a **SUPPORT BRACKET.**

   (a) Draw, using first angle projection, the following views:
   (i) a sectional front elevation on plane **A – A** 18 marks
   (ii) a complete end elevation in the 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

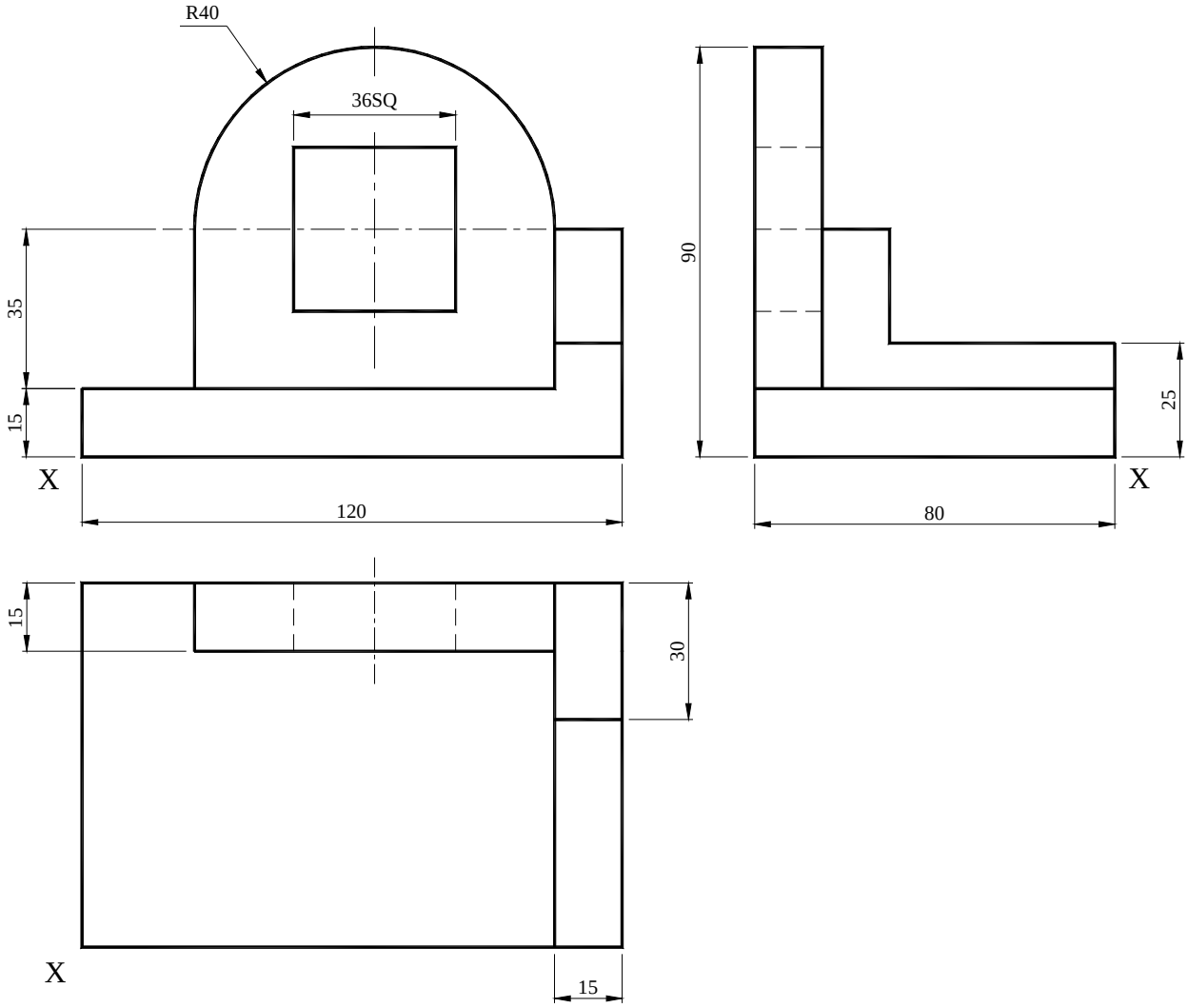
Total: 36 marks





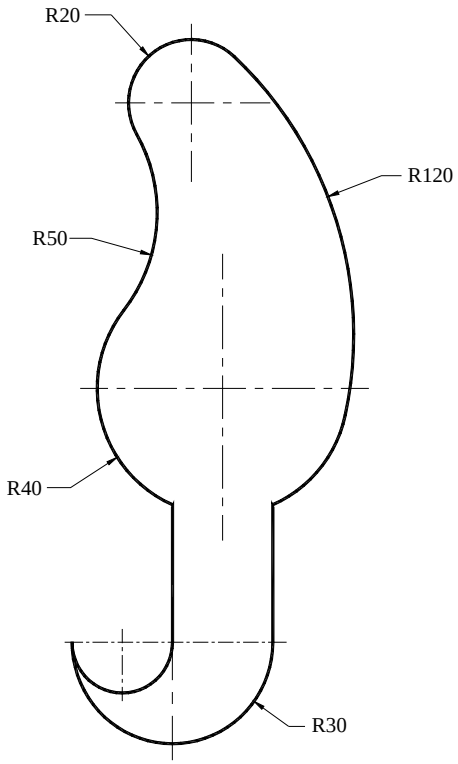
2. The figure below shows, in first angle orthographic projection, three views of an **Angle Block** which is part of a measuring instrument.
   Draw an Isometric view of the component, positioning corner '**X**' in the foreground.

16 marks



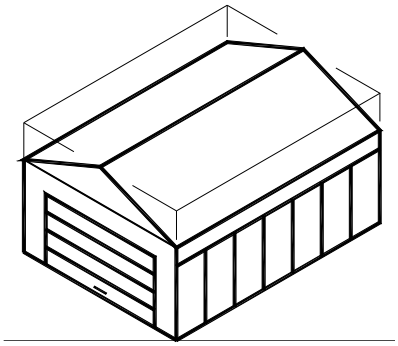
3. The drawing shows the outline of a logo for a manufacturer of musical instruments.
   On the given centre lines, draw, full size, the outline of the logo.
   Clearly show your construction for finding the centres of all blending arcs.
   Note: the drawing is not drawn to scale.

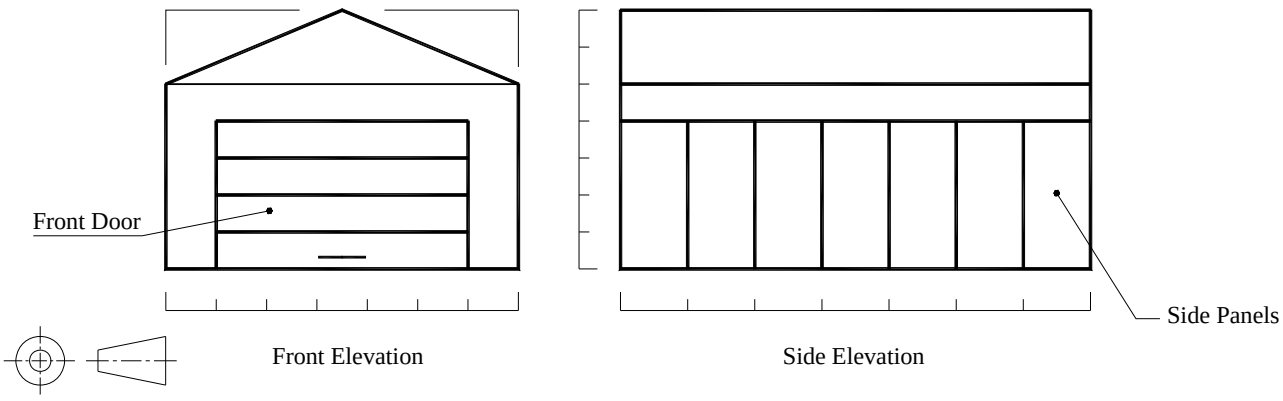
   16 marks



4. The drawing 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.
   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 door;
   - ii) the panels of the side;
   - iii) the apex of the roof.

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





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

   16 marks