JUNIOR LYCEUM ANNUAL EXAMINATIONS 2008

Education Assessment Unit - Education Division

FORM 1   **GRAPHICAL COMMUNICATION**   **TIME: 2 hours**
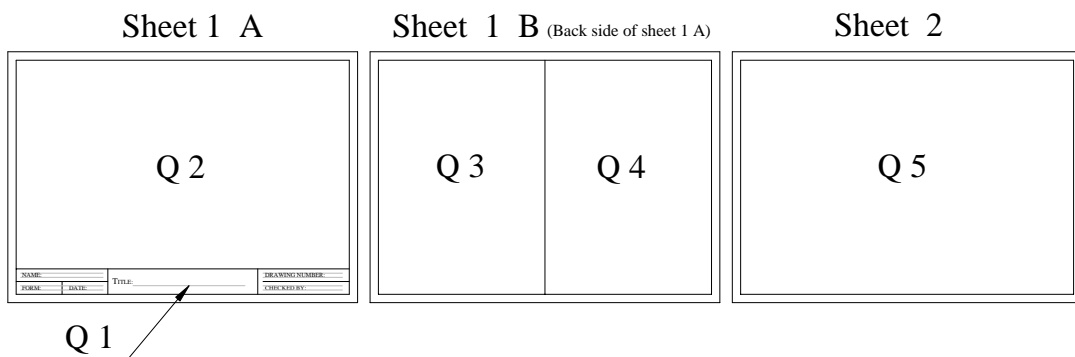
NAME:_____   **CLASS**: _____

Please Note:

You are required to use both sides of the drawing paper, as shown below.

Sheet 1 A	Sheet 1 B (Back side of sheet 1 A)	Sheet 2
Q 2	Q 3 Q 4	Q 5

NAME: TITLE: DRAWING NUMBER:
FORM: DATE: CHECKED BY:

Q 1

- Write your name and class on all sheets.
- Attempt **ALL** questions.
- Answer ALL question accurately, using instruments, unless otherwise stated.
- All construction lines **MUST** be shown.
- Drawing aids may be used.
- All dimensions are in millimetres.
- Estimate any missing dimension.
- Marks will be awarded for accuracy, clarity and construction.

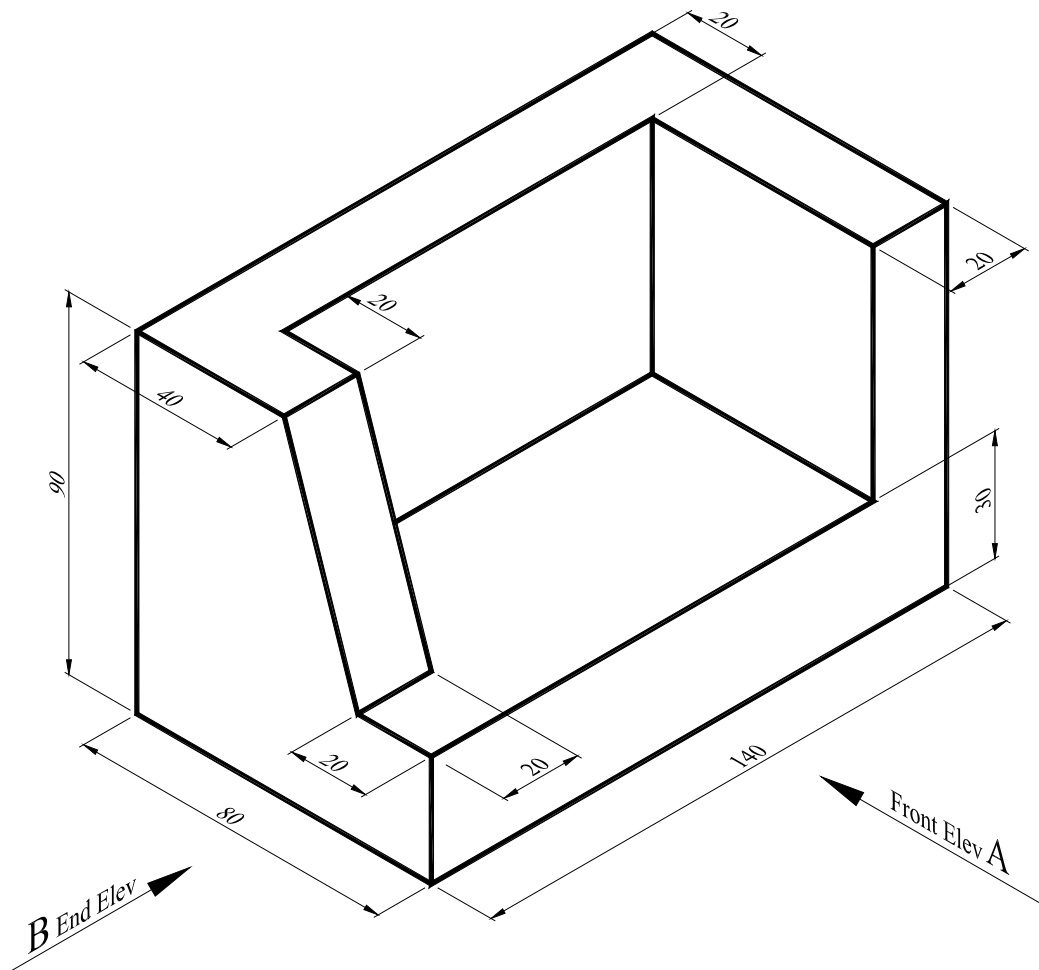| Question	1	2	3	4	5
Max. mark	**10**	**35**	**18**	**19**	**18**
Mark					

1. Draw a borderline and a title (name) block on one side of your drawing paper.
   In the appropriate space, print in freehand simple block letters:
   - (a) Your surname and name.
   - (b) Your class.
   - (c) Date.
   - (d) Annual Examination.
   - (e) In the middle space of your title block, write down the name of the drawing in question 2: '**SHAPED BLOCK'**

   10 marks

2. The figure below shows the drawing of a **SHAPED BLOCK.**
   Draw full size:

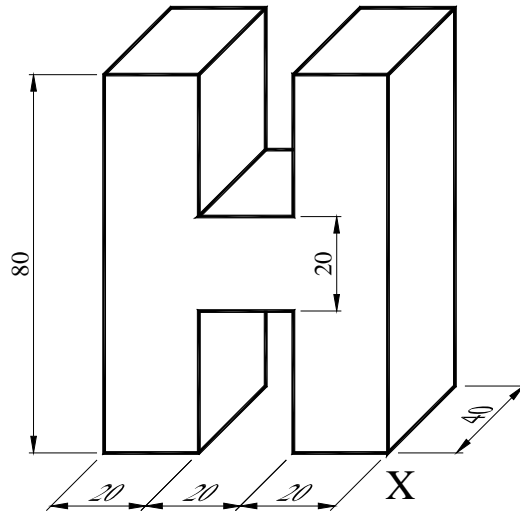   - (a) A front elevation from arrow **A**.   (13 marks)
   - (b) An end elevation from arrow **B**.   (12 marks)
   - (c) A plan.   (10 marks)
   Hidden details are to be shown.

   Total 35 marks

3. The figure below shows an oblique view of shaped wooden block.
Draw, full size, an **Isometric** view of the given block with corner '**X**' to be the lowest point in your drawing.
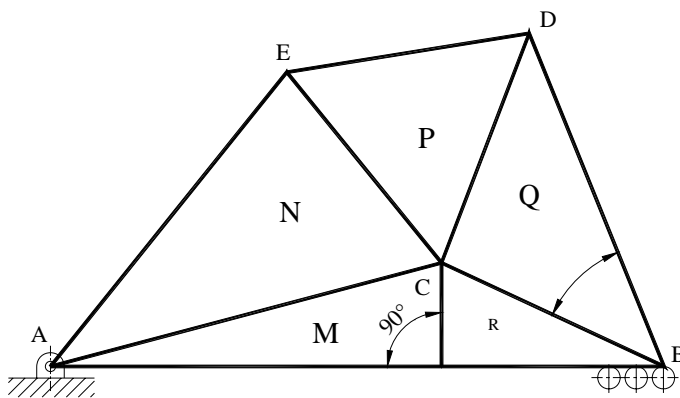**Note**: The given drawing is not drawn to scale.

18 marks

4. The figure below shows a supporting structure.
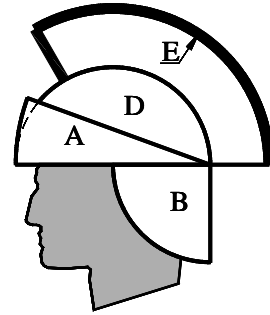|		
(a)	copy, full size, the given figure	10 marks
(b)	measure the length of line **AE**	2 marks
(c)	using your protractor measure the angle **CBD**	2 marks
(d)	name triangles M and Q, by angles	2 marks
(e)	name triangles N and P, by sides.	2 marks
	presentation and neatness	1 mark

Total 19 marks

AB = 135mm
AC = 89mm
BC = 54mm
BC = CD = 54mm   BD = 79mm
CD = ED = CE = 54mm

NOT TO SCALE

5. The figure on the right hand side, shows a 'Roman Soldier's Helmet' which consist of four parts **A**, **B**, **D** and **E**.

For the Helmet only, and to the dimensions given below, draw full size:

(a)   the given **Helmet,** as shown below   10 marks
(b)   name the areas **A**, **B** and **D**   6 marks
(c)   give the proper name for the curved line **E** 2 marks
       Note that C_1 and C_2 are both centres of circles.

Total 18 marks