# JUNIOR LYCEUM and SECONDARY SCHOOL ANNUAL EXAMINATIONS 2006 

Education Assessment Unit. Education Division

NAME:
CLASS: $\qquad$

## 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.
- You are required to use one side of your paper for question number 2 only.


## Information

- All dimensions are in millimetres.
- Estimate any missing dimension.
- Marks will be awarded for accuracy, clarity and appropriateness of construction.

| Question | 1 | 2 | 3 | 4 | 5 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Max. mark | $\mathbf{1 0}$ | $\mathbf{3 5}$ | $\mathbf{1 8}$ | $\mathbf{1 9}$ | $\mathbf{1 8}$ |
| Mark |  |  |  |  |  |

Question 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 spaces of your title block, write down the name of the drawing in question no. two i.e. ANGLE BRACKET
(10 marks)
Question 2
The figure below shows the drawing of an ANGLE BRACKET.
To the dimensions given draw:
(a) A front elevation.

13 marks
(b) An end elevation.

12 marks
(c) A complete plan.

10 marks
Total: (35 marks)
N.B: $\square$ represents a square


Question 3
The figure below shows a pictorial view of a shaped block.
Instead of the given drawing you are required to draw full size, an isometric view of the block, with corner $\mathbf{X}$ as the lowest point.
Note: The given drawing is not drawn to scale.


Question 4
(a) The drawing below shows a $45^{\circ}$ and $60^{\circ}$ set squares.

Find angles. A, B, C, D, E and F in the drawing.

(b) Using your compasses only, construct separately the following angles:
Angle (i) $45^{\circ}$;
(ii) $60^{\circ}$;
(iii) $135^{\circ}$;
(iv) $150^{\circ}$.
(19 marks)

## P.T.O

Question 5
(a) Construct a rhombus given that its diagonals are 120 mm and 90 mm long.
(b) Construct a regular hexagon of 50 mm sides
(c) Draw, using geometrical construction, a regular octagon within a circle of 100 mm diameter.
(18 marks)

