

Junior Certificate Examination 2006

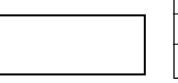
Technical Graphics Higher Level Section A (120 marks)

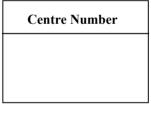
Monday 19 June Morning 9:30 - 12:30

Instructions

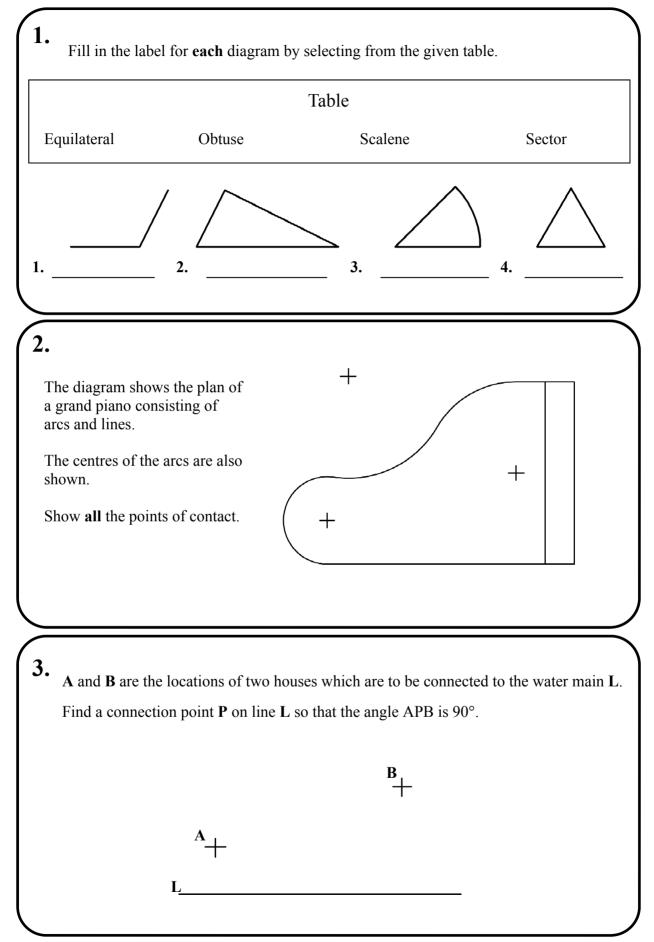
- (a) Answer **any ten** questions in the spaces provided. All questions carry equal marks.
- (b) Construction lines must be clearly shown.
- (c) All measurements are in millimetres.
- (d) This booklet must be handed up at the end of the examination.
- *(e)* Write your examination number in the box provided below and on all other pages used.

Examination Number:



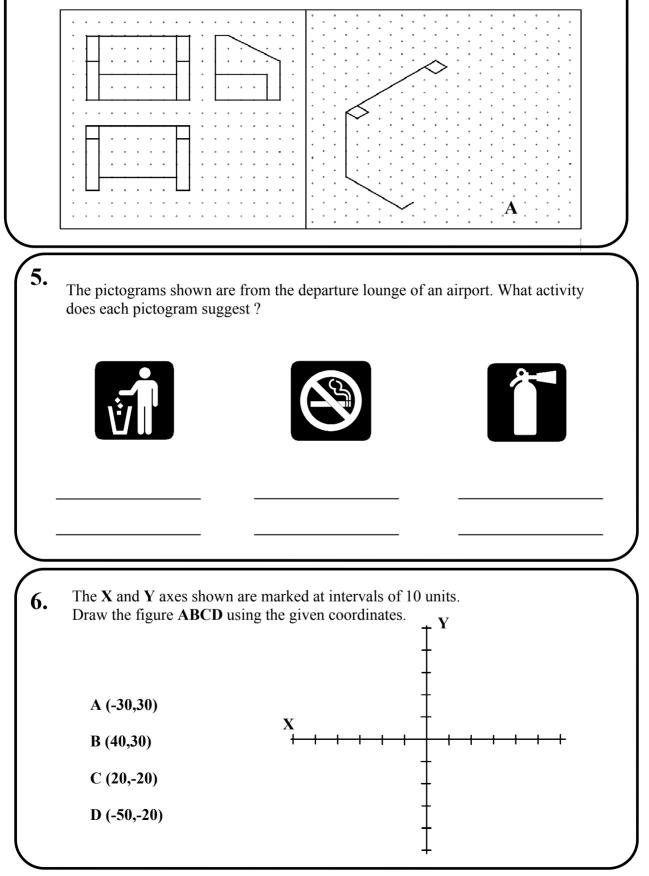


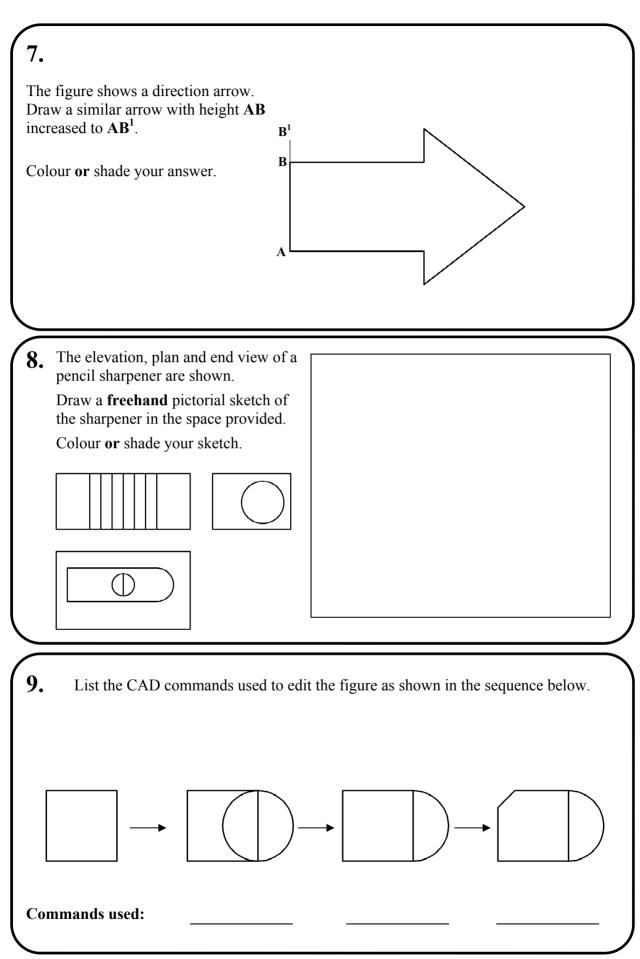
Question	Mark
Section A	
1	
2	
3	
4	
5	
6	
TOTAL	
GRADE	



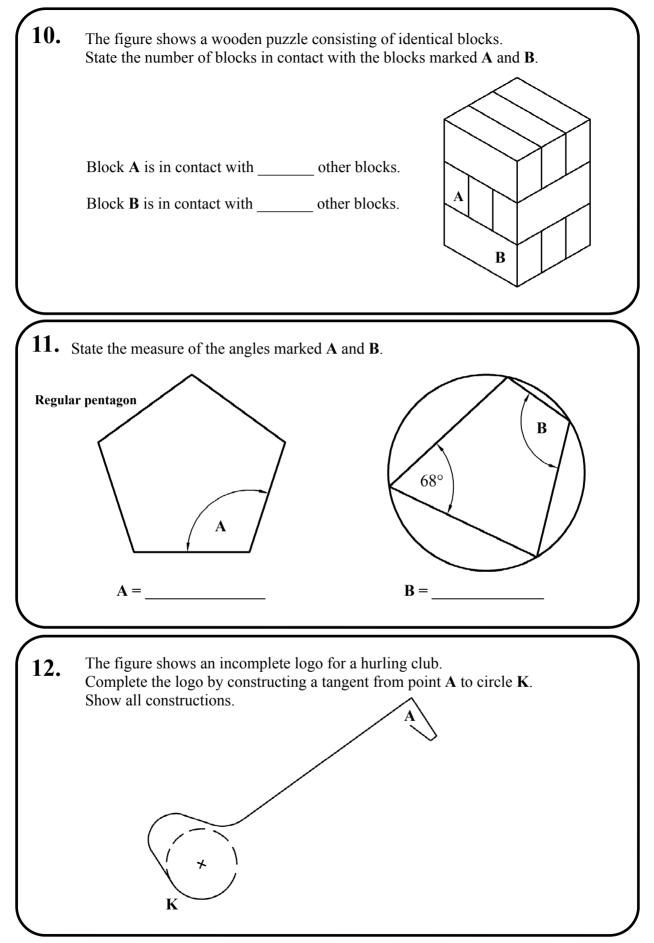
Section A - Page 2 of 6

4. The square grid shows the elevation, plan and sectional end view of a sofa. Complete the pictorial sketch **A** of the sofa.

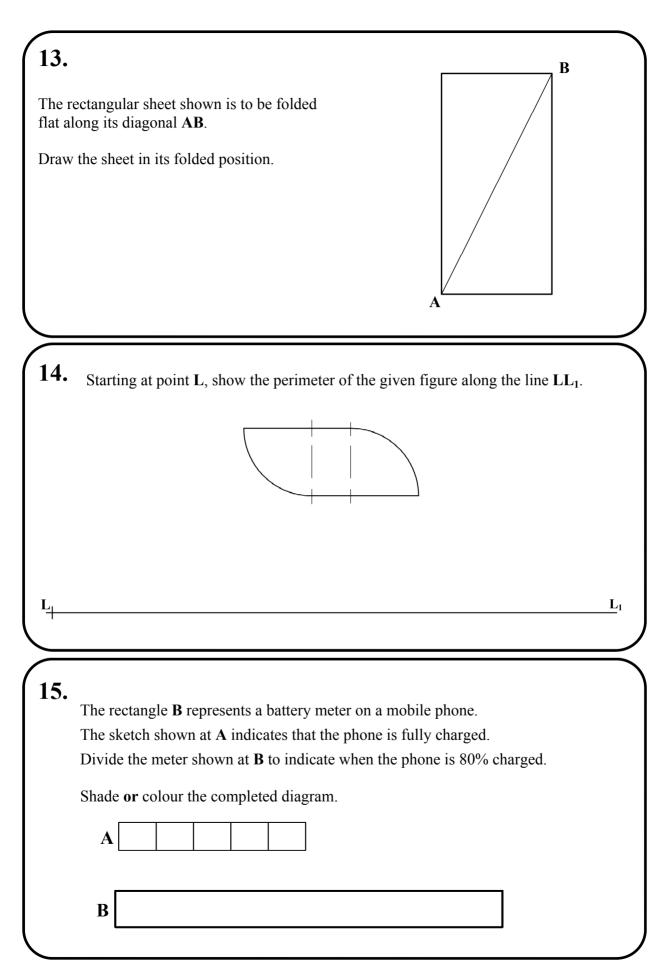




Section A - Page 4 of 6



Section A - Page 5 of 6



Section A - Page 6 of 6

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Junior Certificate Examination 2006

Technical Graphics Higher Level Section B (280 marks)

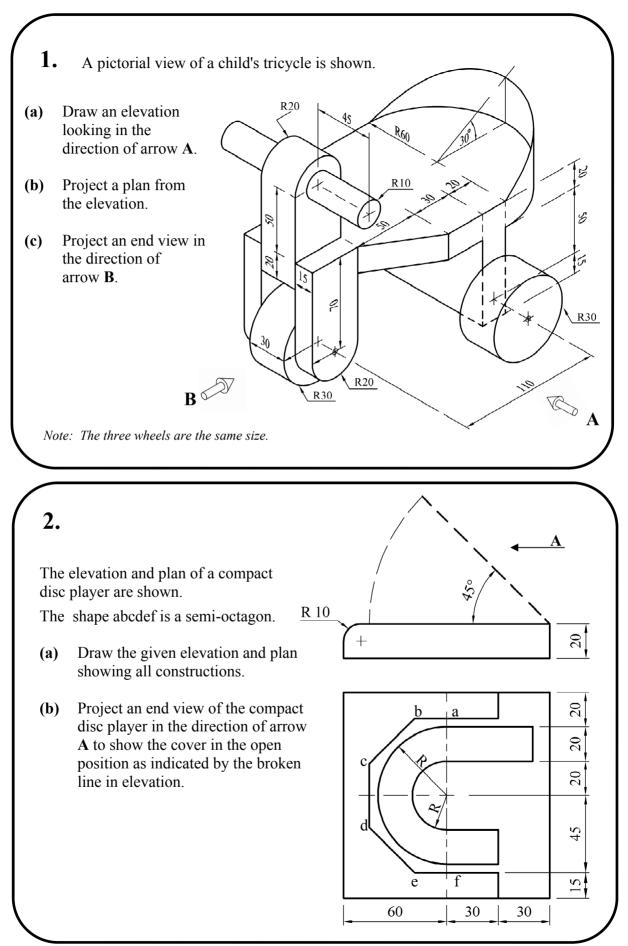
Monday 19 June Morning 9:30 - 12:30

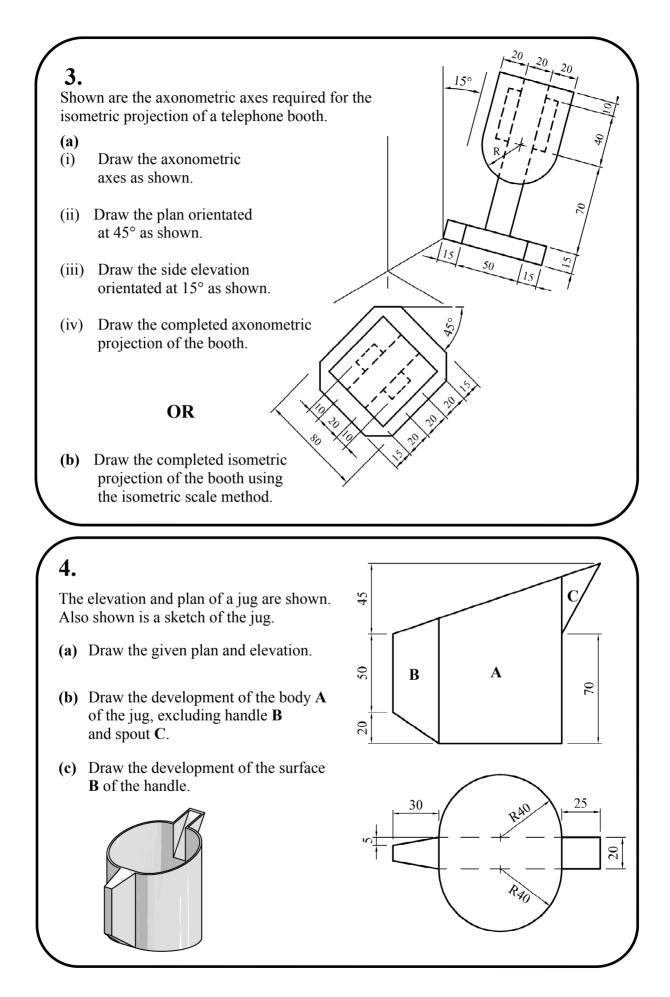
Instructions

- (a) Any four questions to be answered.
- (b) All questions in this section carry equal marks.
- (c) The number of the question must be distinctly marked by the side of each answer.
- (d) Work on **one side** of the paper only.
- (e) Write your examination number on each sheet of paper used.

S61B

$SECTION \ B \ (\text{answer any four questions - all questions carry equal marks})$





5. The figure shows a design for a floor tile. The tile is subject to transformations in the following order: (i) Translation (ii) Central symmetry (iii) Axial symmetry (iv) Rotation clockwise through 90°.

P1, P2, P3 and P4 show the positions of corner P under each of these transformations. Draw the given figure and determine the image of the tile under each of the transformations. R **P1** 23 9 **P3** Р **P2** P4 30 100 40 70

6. The figure shows the design of the base for an electric iron.

The curve **AB** is a parabola with vertex **A**.

The curve **CB** is an identical parabola with vertex **C**.

The curve **DEF** is elliptical.

The curve **DGF** is portion of the same ellipse.

Draw the given design.

Show all constructions clearly.

