

### Coimisiún na Scrúduithe Stáit

### State Examinations Commission

### Junior Certificate Examination, 2011

# Technical Graphics Ordinary Level Section A

(120 marks)

*Monday, 20 June Morning 9:30 - 12:00* 

# Centre Number

#### Instructions

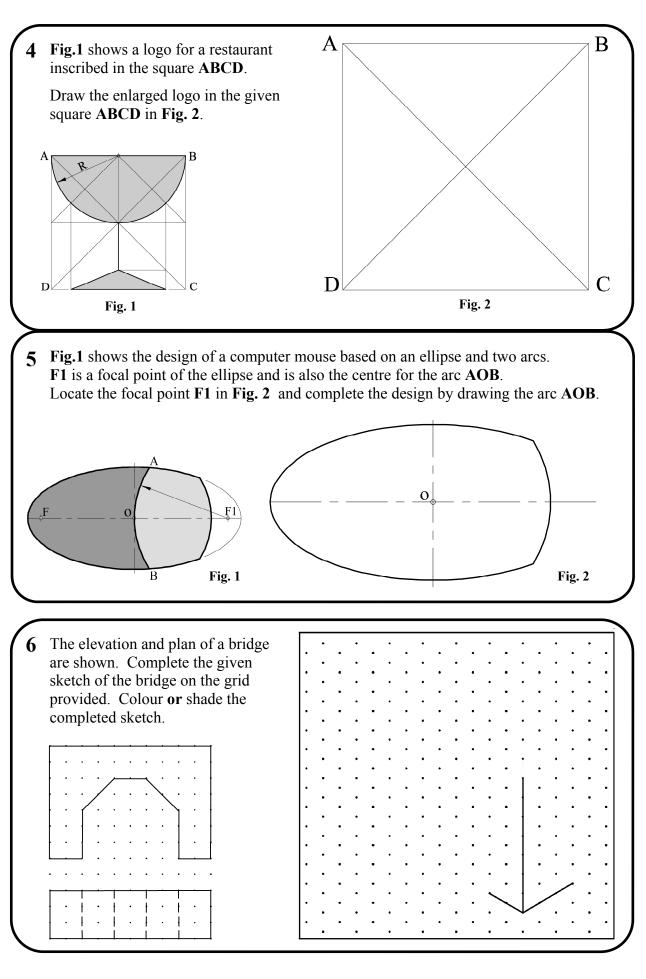
- (a) Answer **any ten** questions in the spaces provided. All questions carry equal marks.
- (b) Construction lines must be clearly shown.
- (c) All measurements are in millimetres.
- (d) This booklet must be handed up at the end of the examination.
- (e) Write your examination number in the box provided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

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

### **SECTION A**. Answer any ten questions. All questions carry equal marks.

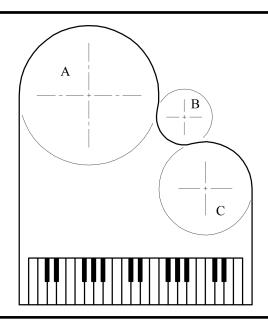
1 The incomplete elevation and the end view of a post box are shown. Also shown is a 3D graphic of the post box. **Insert** the missing lines in the elevation. **POST** 2 In the space provided, make a freehand sketch of the toolbox shown. Colour or shade the completed sketch. Name the computer components labelled A and B and give one use for each. B Use \_\_\_\_\_ Use



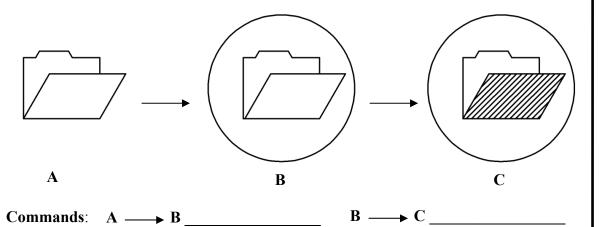
7	The outline of a boat and sail is shown.
	Write down the area of the sail in square metres.
	1 square = 1 square metre.
	Area of the sail: square metres.
8	measure and write down the dimensions A and B of the pool table shown.  A:
	0.2 0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 m
<b>9</b>	The figure shows a set of blocks.  Draw, in the space provided, an elevation of the blocks in the direction of the arrow.
L	

The drawing shows the outline of a piano.

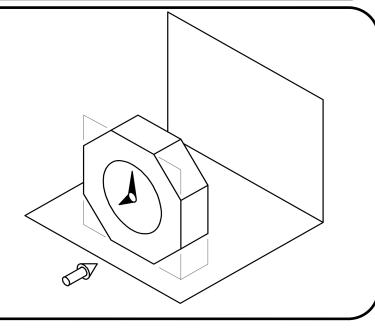
Show clearly the points of contact between the circles A, B and C.



11 List the CAD commands used to produce the figures A to B and B to C.



Draw the shadow cast by the clock when the direction of light is parallel to the arrow.



13 The figure shows a small weighing scales.

(a) Name the shape of the base A.

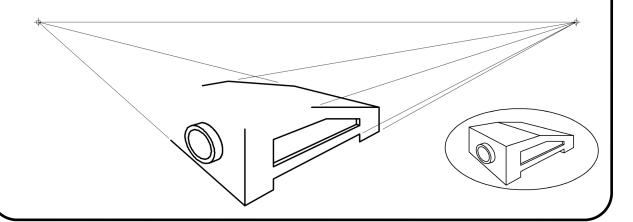
(b) Write down the size of the angle B.

Shape of base A:

Size of angle B:

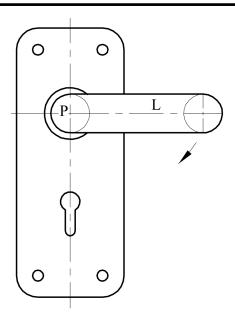
The figure shows an incomplete perspective drawing of a data projector.

A small 3D graphic of the projector is also shown. Complete the perspective drawing.



15 The diagram shows a design for a door handle.

Rotate the lever L in the direction of the arrow through 30° about the point P and complete the drawing of the lever in the rotated position.



B

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