An Roinn Oideachais agus Eolaíochta

11009

S 60 A

A

JUNIOR CERTIFICATE EXAMINATION, 1999

TECHNICAL GRAPHICS — ORDINARY LEVEL

THURSDAY 17 JUNE — MORNING, 9.30 — 12.00

TOTAL MARKS 400 (Section A and B)

EXAMINATION NUMBER	10011251111	
CENTRE STAMP		

INSTRUCTIONS

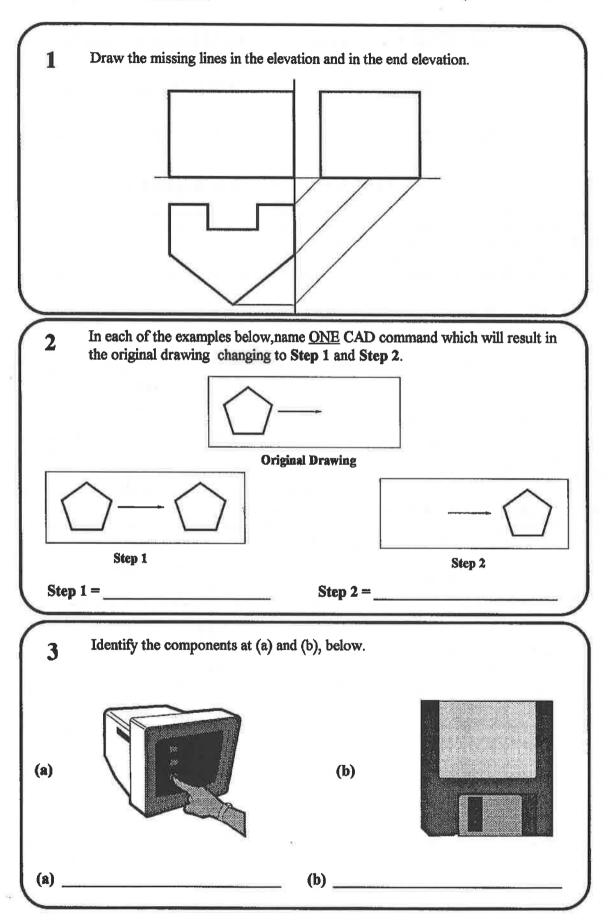
- (a) Answer <u>any ten</u> of the short answer questions in Section A (120 marks) using the spaces provided.
- All questions in Section A carry equal marks.
- (b) Answer <u>any four</u> of the six questions in Section B (280 marks).
- All questions in Section B carry equal marks.
- (c) Examination Number must be distinctly marked in the space provided above and on each sheet of paper used.
- (d) All construction lines must be clearly shown.
- (e) All measurements are in millimetres.
- (f) Hand up this answer book (Section A) at the end of the examination.

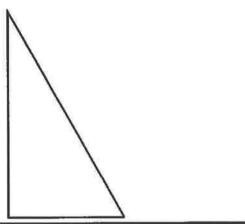
For Examiner's use only		
QUESTION	MARK	
Section A (Total)		
Section B Q1		
Q2		
Q3	7	
Q4		
Q5	10	
Q6		
TOTAL		
GRADE S		

WARNING

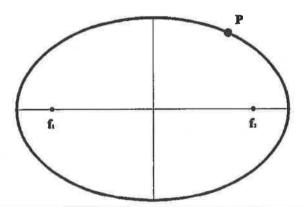
THIS ANSWERBOOK MUST BE HANDED UP AT THE END OF THE EXAMINATION OTHERWISE MARKS WILL BE LOST.



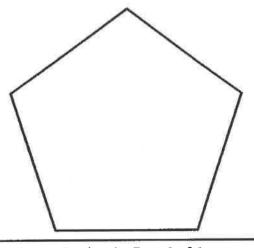




5 Construct a Tangent to the Ellipse at the point P. Show all construction lines.



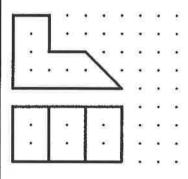
6 Inscribe a CIRCLE in the given PENTAGON, in contact with each side.



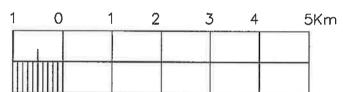
Section A - Page 3 of 6

7

Shown is the elevation and plan of a solid. Complete the isometric view of the solid.



8 Using the scale provided, measure the lines AB and CD and state their lengths.



A ______

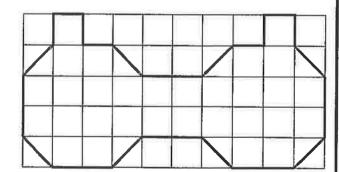
C To The Control of t

AB = _____

9 Determine approximately the area of the irregular figure in square units.

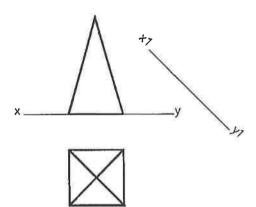
1 square = 1×1 Unit.

Ans :- _____

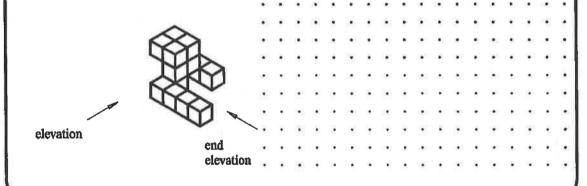


Shown is the elevation and plan of a square based pyramid.

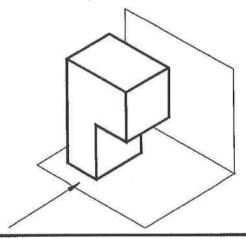
Project the AUXILIARY ELEVATION, on the given X1 - Y1 line.



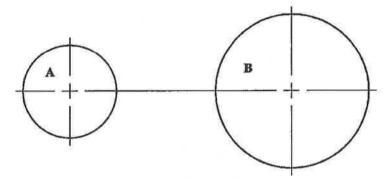
Using the grid provided, sketch the orthographic views indicated by the arrows.



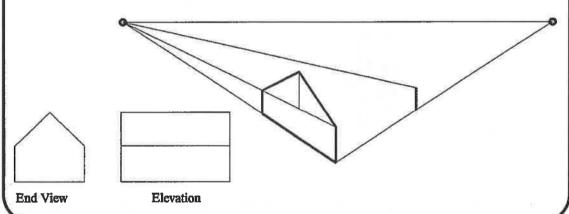
Sketch the SHADOW cast by the SOLID when the light source is as shown by the arrow.



Construct an EXTERNAL TANGENT to circles A and B, showing clearly all constructions and points of contact.



The figure shows the incomplete TWO POINT perspective outline of a house. Complete the perspective outline.



15 Rotate the given figure, clockwise, about point O, through 90°.

