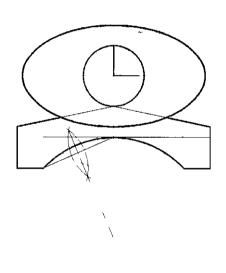
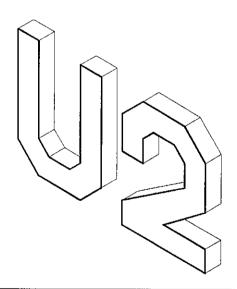
TECHNICAL GRAPHICS ORDINARY LEVEL

MARKING CONFERENCE

Venue: Athlone Institute of Technology

Tuesday 3rd July 2001 at 10.30a.m.





CONFIDENTIAL

To be returned once the marking is completed

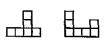
(Section XVI of Booklet \$.63 — Instruction to Assistant Examiners)



A					
1	Proj. to Elev. Comp. Elev. Comp. Plan. (2 for e	<i>,</i>	2 2 3 3		}
2	12 marks any	attem	it at fr	eehand sketch	
3	(i) 6 marks (ii) 6 marks		(i) Ke (ii) VD	yboard DU	
4	Square	12	×	x x	
5	Correct Cons (Any line, giv		~		
6	Regular Oct. (8 if iregular				
7	2 each line	12			
8	À	2M		6	
	B	5M		6	
	(A (B	2.1/1. 5.1/4.		give 4) give 4)	
9	15 sq units.			12	
	14/16 give			8	
10	Proj. to Aux. Correct heigh Comp. Fig. (2 for each lin		3 3 6		\

11 6 each
2 marks each row, counting from the base up.

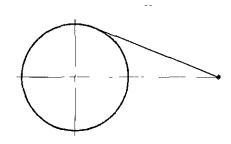




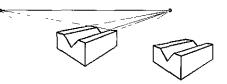
12 Proj. to V.P. 4
Outline Fig. 4
Shading 4



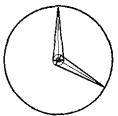
13 Bisect P to Centre 3
Drawing Arc 3
Showing P.O.C 3
Tangent 3



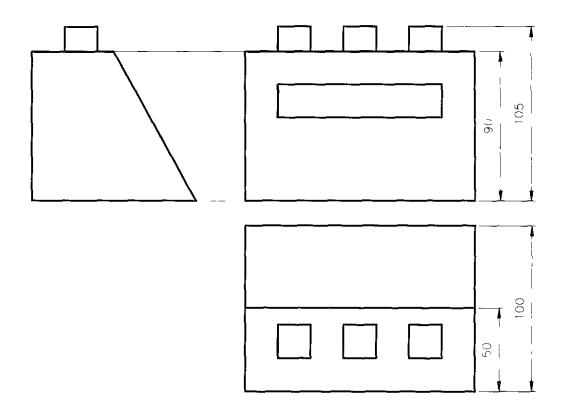
14 Proj. to V.P's 8 (2 each) Comp. Fig. 4 (2 each)



15 Correct 12 Incorrect orientation 8



QUESTION 1 Paper B 2001



ORTHOGRAPHIC OUTLINE (10)

ELEVATION (18)

- 17 1 each line
- 1 for correct position of buttons

PLAN (18)

- 17 1 each line
 - 1 for correct position of buttons

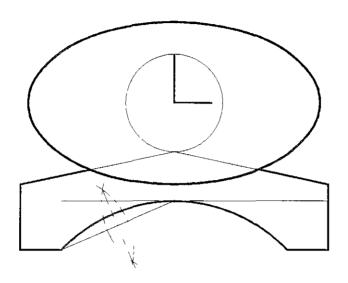
END ELEVATION (8)

- 6 1 for each line
- 2 for the sloped line

DIMENSIONS (4)

	_
MARKS	į
10	
17	
1	
17	
1	
6	
2	
4	
12	

QUESTION 2 Paper B 2001



ELLIPSE & CLOCK FACE (32)

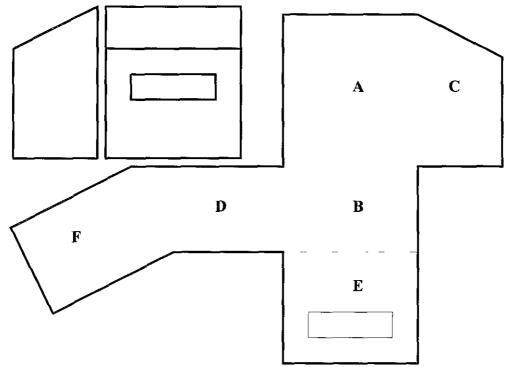
- 8 Major & Minor Axis, 2 x 4 each
- 14 Locating points on the curve
- 6 Drawing curve
- 4 Clock face, 2 circle, 1 each for hands

BASE (26)

- 2 190 mm width
- 2 each 25mm lines, 2 each 40mm lines, 3 each sloping lines, 2 offset 30mm
- 6 Location of centre for curve
- 2 Drawing curve

MARKS
8
14
6
4
2
16
6
2
12

QUESTION 3 Paper B 2001



ORTHOGRAPHIC OUTLINE (20)

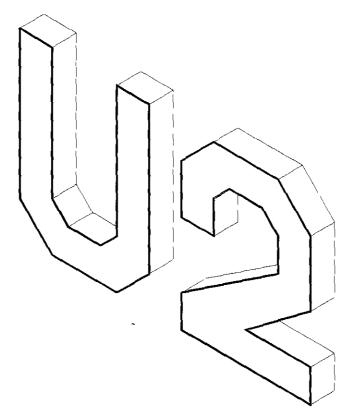
- 6 Outline of Elevation and End Elevation
- 9 Elevation, 1 for each line
- 5 End Elevation, 1 for each line, 2 for sloped line

DEVELOPMENT (38)

- 4 Side A, Back 1 for each line
- 3 Side **B**, Base
- 4 Side C ,, , 2 for sloped line
- 4 Side **D** ,, , 2 for sloped line
- 7 Front \mathbf{E}
- 3 Correct position of opening in **E**.
- $3 \qquad \text{Top } \mathbf{F}$
- 5 Fold lines hatched
- 5 Economy of folds (One piece development)

_				
MARKS				
6				
9				
5				
4	_			
3				
4				
4				
7				
3				
3				
5				
5				
12				
	_			

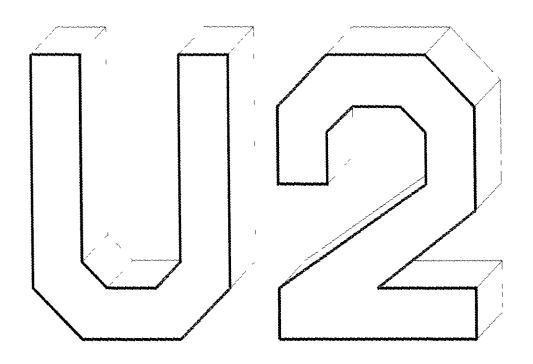
QUESTION 4a Paper B 2001

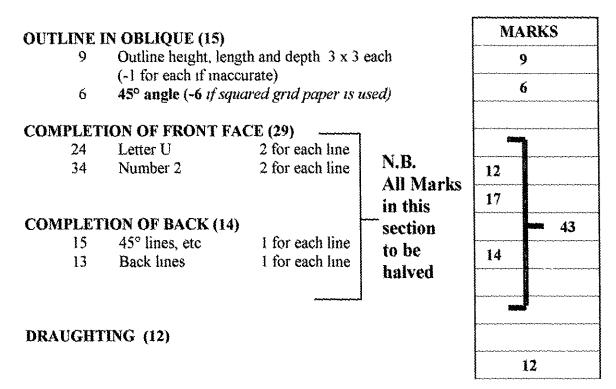


MARKS OUTLINE IN ISOMETRIC (15) Outline height, length and depth 3 x 3 each 9 (-1 for each if inaccurate) 6 30° angle (-6 if isometric grid paper is used) 6 **COMPLETION OF FRONT FACE (29)** Letter U 2 for each line 24 N.B. 34 Number 2 2 for each line 12 All Marks 17 in this **COMPLETION OF BACK (14)** section 43 30° lines, etc 1 for each line 15 to be 14 13 Back lines 1 for each line halved **DRAUGHTING (12)** 12

N.B. If the solution is presented on isometric grid paper only, apply the scheme, but multiply this mark by 75

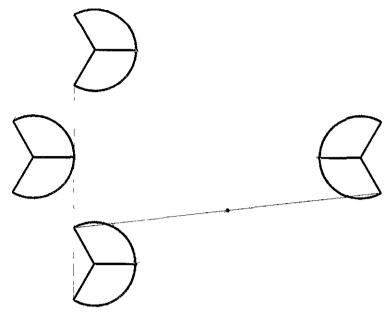
QUESTION 4b Paper B 2001





N.B. If the solution is presented on squared grid paper only, apply the scheme, but multiply this mark by 75

QUESTION 5 Paper B 2001



SETTING UP (22)

- Figure F, 2 R25 circle, lines 3 x 2 each
- 2 150mm Horizontal line
- 30° & 60° lines Top and Bottom (4 x 3 each)

TRANSLATION (10)

- 2 Line Parallel to AA1
- 8 Completion of Figure (2 circle, lines 3 x 2 each)

AXIAL SYMMETRY (10)

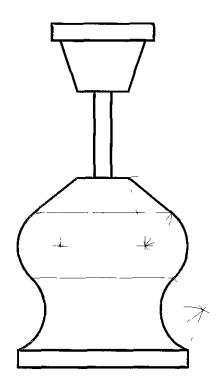
- 2 Line A1A2
- 8 Completion of Figure (2 circle, lines 3 x 2 each)

CENTRAL SYMMETRY (16)

- 6 Bisect A2A3 line to locate Z
- 2 Line to locate orientation
- 8 Completion of Figure (2 circle, lines 3 x 2 each)

MARKS
8
2
12
2
8
2
8
6
2
8
12
·

QUESTION 6 Paper B 2001



SETTING UP (38)

2 Centre line 200mm

Top 14 Ceiling Fitting 2 each line

4 Wire 2 each line

Bottom 10 Shade 2 each line

Circles A&B 8 2 offset 40mm, 2 offset 50mm, 2 each R25

circles

COMPLETION (20)

8 Tangent lines (2 x 4 each)

12 Tangental Arcs C & D (2 x 6 each)

MARKS	
2	
14	
4	
10	
8	
8	
12	
12	