

2003 Graphic Communication

Intermediate 2

Finalised Marking Instructions

1. (a) (i) Flatbed Scanner **1/2 mark**
- (ii) To transfer existing photos/pictures electronically to a file/computer
To transfer a document to a file (OCR) or to see on screen. **1/2 mark**
- (b) (i) Graphics Tablet/Digitiser/Graphic Pad/Drawing Sketch Pad **1/2 mark**
- (ii) Sketching/Drawing/Tracing **1/2 mark**
- (c) (i) Drum Plotter **1/2 mark**
- (ii) To produce a hard copy/Print/Plot a CAD drawing **1/2 mark**
2. (a) (i) -----
- (ii) **████████** ----- **████████**
- (iii) -----
- (iv) -----
- 1/2 mark each line**
- (b) (i) Across Flats **1/2 mark**
- (ii) Centre Line **1/2 mark**
3. (a) Drawing 1 — Floor Plan **1 mark**
- Drawing 2 — Site Plan/Block Plan **1 mark**
- (b) Drawing 1 — To show arrangement of rooms/to show size and shape of rooms
To show positions of windows and doors
To show types of internal and external walls
To allow builders, plumbers, electricians, etc to help plan the construction work and to cost the building materials **1 mark**
- Drawing 2 — Allows builder to mark out the site, lay drainage pipes and build manholes
Can be submitted to the local government department for approval
Shows site boundary and outline of new building
Shows location of roads, paths and adjacent plots. **1 mark**
- (c) (i) 1:50 **1 mark**
- (ii) 1:200 **1 mark**

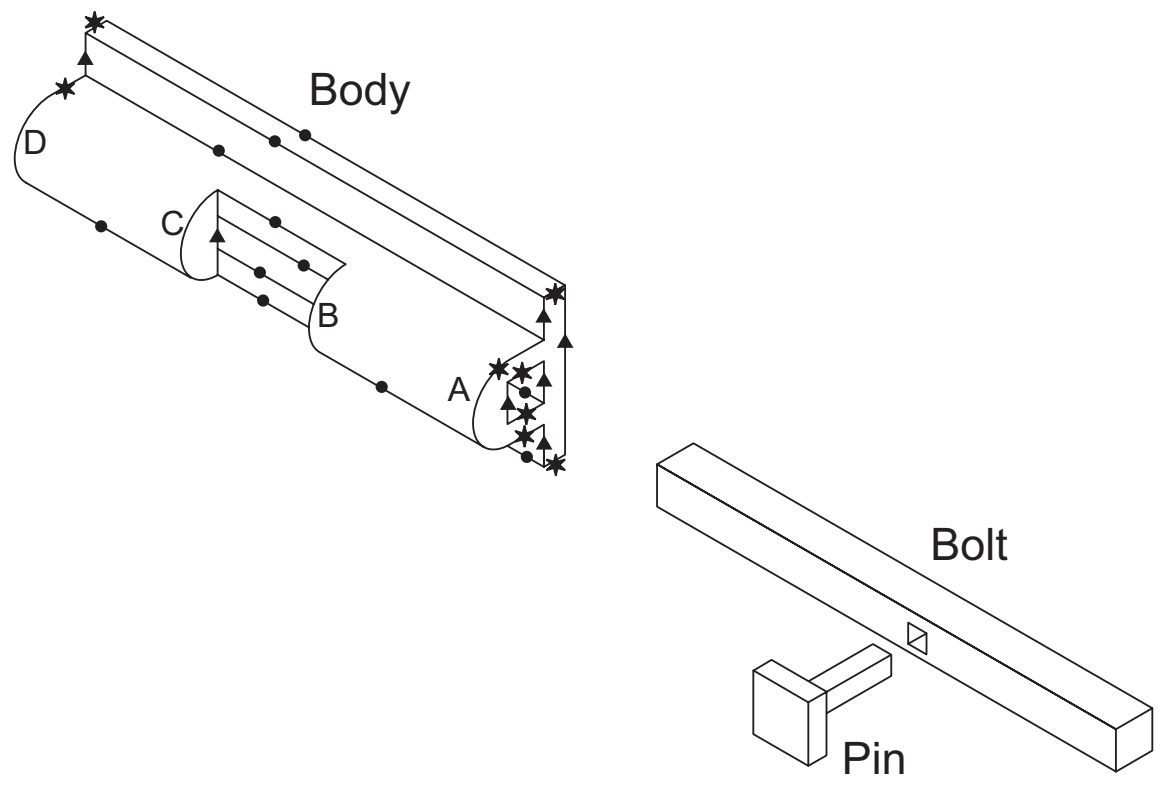
4. (a) (i) Laser, Inkjet or Bubble Jet Printer. **1 mark**
- (ii) Flatbed or Drum Plotter, Design Jet, Dot matrix. **1 mark**
- (b) (i) To keep different line types separate eg outline, centre line, dimensions, to allow editing, etc. Keep parts separate, ease of editing. **1 mark**
- (ii) To allow operator to round the top corners or button edges easily. **1 mark**
- (iii) Allows operator to look closely at a particular area for editing purposes or clarity. **1 mark**
- (iv) Operator only has to draw one button and array will set it into rows and columns, at set distances apart. **1 mark**

Answer should show a clear understanding of the command.

5. (a) (i) Footer **1 mark**
- (ii) Columns/Body Text **1 mark**
- (b) (i) Portrait **1 mark**
- (ii) Landscape **1/2 mark / 1/2 mark**



6.



Body

- (a) 11 left-hand lines marked • **1½ marks**
 - 9 – 11 lines 1½ marks
 - 6 – 8 lines 1 mark
 - 3 – 5 lines ½ mark

- (b) 8 right-hand lines marked * **1 mark**
 - 6 – 8 lines 1 mark
 - 3 – 5 lines ½ mark

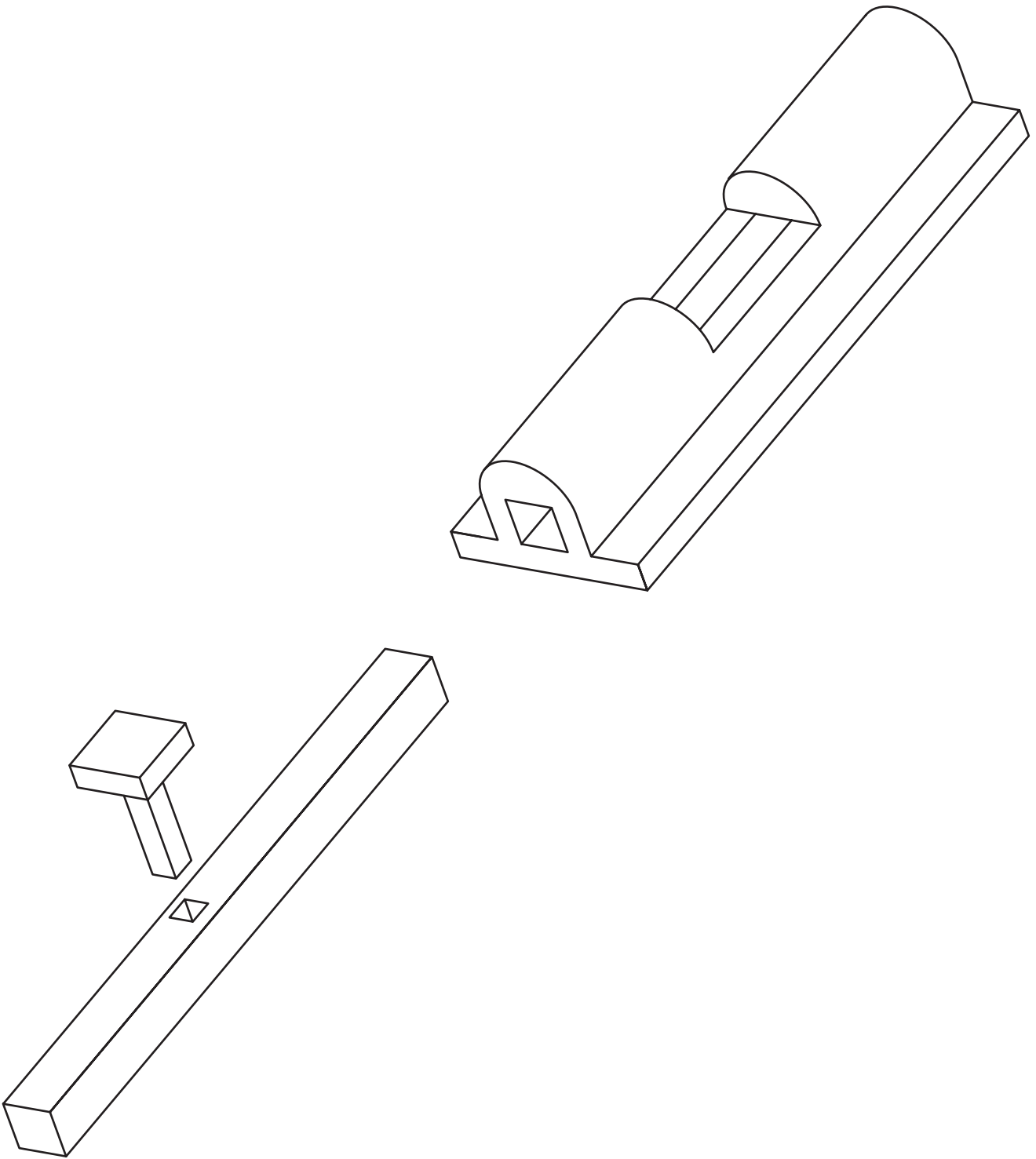
- (c) 7 vertical lines marked ▲ **1 mark**
 - 6 – 7 lines 1 mark
 - 3 – 5 lines ½ mark

- (d) Construction for curves shown **1 mark**
 - end elevation properly split up 1 mark
 - lengths shown on elevation ½ mark

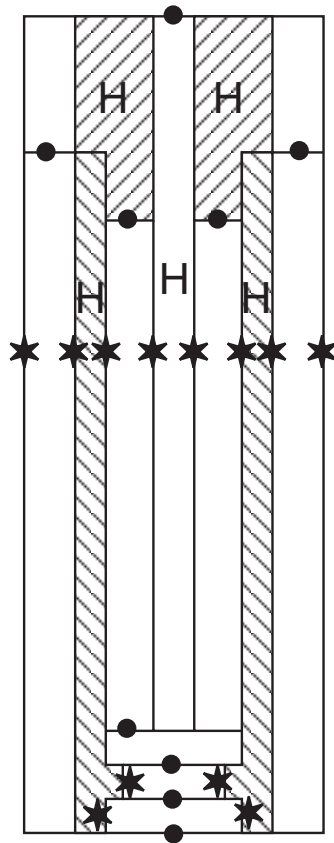
6. (continued)

(e)	Curve A Construction		1 mark
	4 – 8 points	1 mark	
	3 points	1/2 mark	
(f)	Curve B Construction		1/2 mark
	3 points	1/2 mark	
(g)	Curve C Construction		1 mark
	3 points	1/2 mark	
	4 points or more	1 mark	
(h)	Curve D Construction		1/2 mark
	3 or more points	1/2 mark	
(i)	Quality of Curves — 0, 1/2, 1, 1 1/2		1 1/2 marks
(j)	Bolt		1 1/2 marks
	14 lines in total		
	12 – 14 lines	1 1/2 marks	
	7 – 11 lines	1 mark	
	4 – 6 lines	1/2 mark	
(k)	Pin		1 1/2 marks
	14 lines in total		
	12 – 14 lines	1 1/2 marks	
	7 – 11 lines	1 mark	
	4 – 6 lines	1/2 mark	
(l)	Views separated		2 marks
	3 views separated	2 marks	
	2 views separated	1 mark	

Total = 14 marks



7.



(a) 9 horizontal lines marked ● **3 marks**

- 2 – 3 1 mark
- 4 – 5 1½ marks
- 6 – 7 2 marks
- 8 – 9 2½ marks
- 9 3 marks

(b) 12 vertical lines marked ★ **3½ marks**

- 2 – 3 1 mark
- 4 – 5 1½ marks
- 6 – 7 2 marks
- 8 – 9 2½ marks
- 10 – 11 3 marks
- 12 3½ marks

(c) 5 areas treated correctly for Hatching marked H **2½ marks**
 5 areas @ ½ mark (4 areas hatched/1 area left blank)

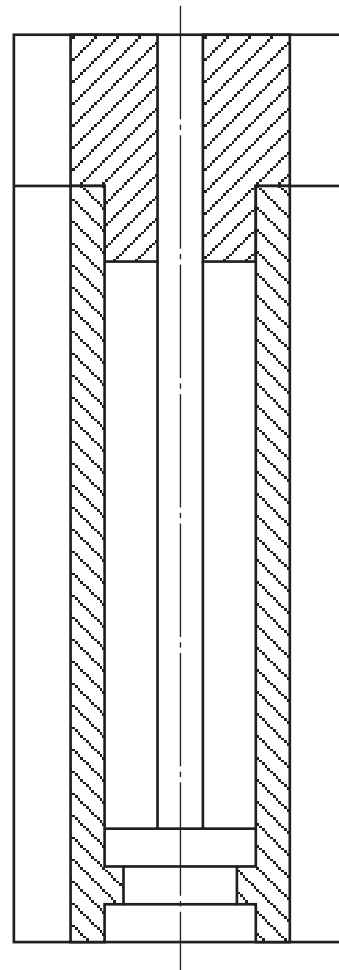
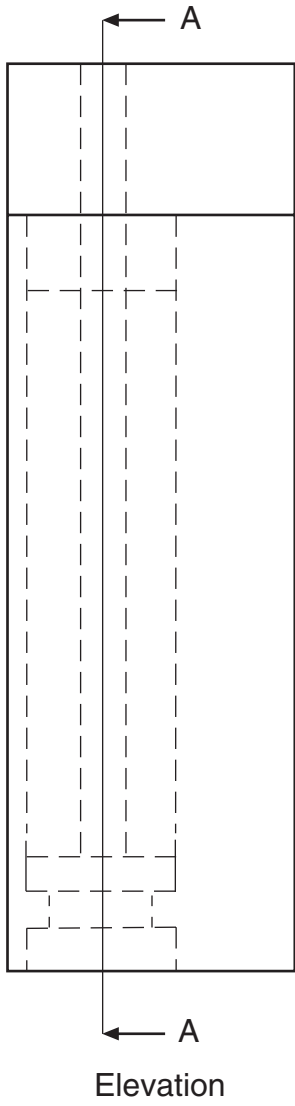
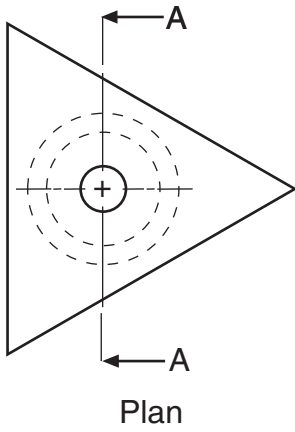
NB Hatching must be attempted in order to gain marks for leaving the spindle unhatched

(d) 45° angle used **½ mark**

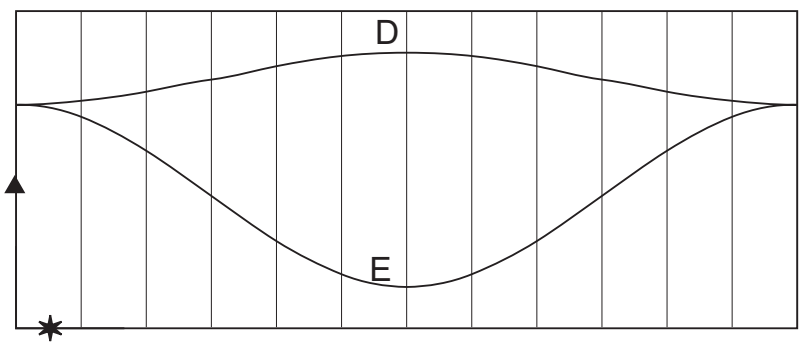
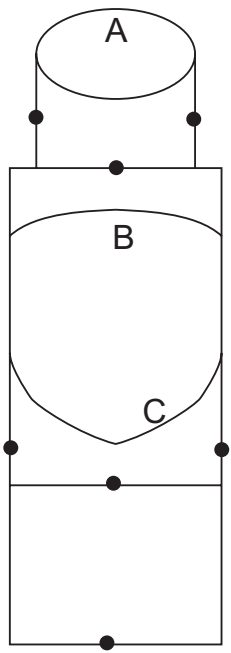
(e) Differentiation between sectioned surfaces **½ mark**

Total = 10 marks

Question 7 — Pepper Mill



8.



End Elevation

- (a) 7 lines marked ● 1 mark
 - 5 – 7 lines 1 mark
 - 2 – 4 lines 1 mark

- (b) Construction shown on Plan and Elevation for ellipse marked **A** 1 mark
 - Plan and elevation split up correctly 1 mark
(taken down to the elevation)

- (c) Points on ellipse **A** 1 mark
 - 10 – 12 points 1 mark
 - 7 – 9 points 1/2 mark

- (d) Construction shown on Plan and Elevation for curves marked **B** and **C** 1 mark
 - Plan and elevation split up correctly 1 mark
(taken down to the elevation)

- (e) Points on ellipse **B** 1 mark
 - 6 – 7 points 1 mark
 - 4 – 5 points 1/2 mark

- (f) Points on ellipse **C** 1 mark
 - 6 – 7 points 1 mark
 - 4 – 5 points 1/2 mark

8. (continued)

(g) Quality of Ellipse **A** **1 mark**

Good quality curve 1 mark
Poor quality curve $\frac{1}{2}$ mark

(h) Quality of Curves **B and C** **1 mark**

Good quality curve 1 mark
Poor quality curve $\frac{1}{2}$ mark

Development of Label (12 mm tolerance)

(i) 12 evenly spaced generators marked  **1 mark**

(j) Correct height marked  **$\frac{1}{2}$ mark**

(k) Development opened correctly along seam A/A **$\frac{1}{2}$ mark**

(l) Construction of curve **D** **1 mark**

10 – 12 points 1 mark
7 – 9 points $\frac{1}{2}$ mark

(m) Quality of Curve **D** **1 mark**

Good quality curve 1 mark
Poor quality curve $\frac{1}{2}$ mark

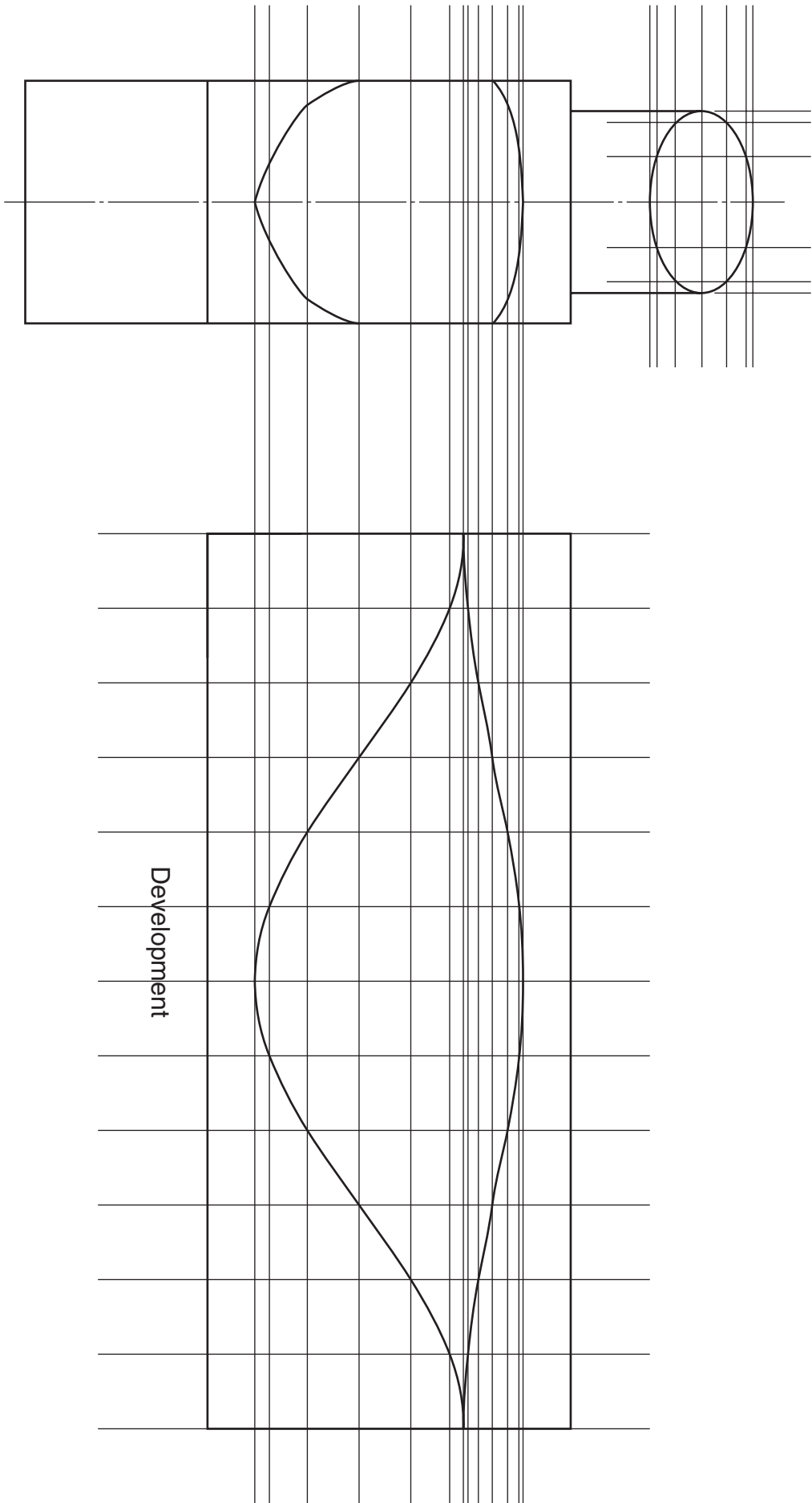
(n) Construction of curve **E** **1 mark**

10 – 12 points 1 mark
7 – 9 points $\frac{1}{2}$ mark

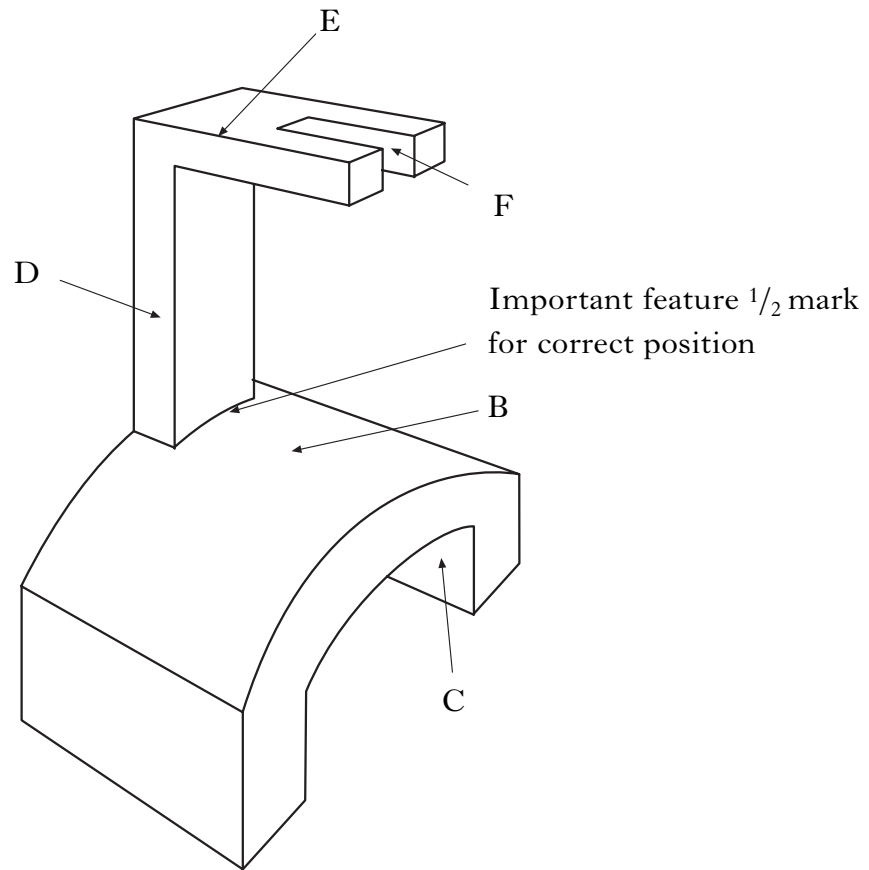
(o) Quality of curve **E** **1 mark**

Good quality curve 1 mark
Poor quality curve $\frac{1}{2}$ mark

Total = 14 marks



9.



A	2pt perspective sketch in good proportion (0, $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2)	2 marks
B	external body ($\frac{1}{2}$, 1)	1 mark
C	internal detail ($\frac{1}{2}$, 1)	1 mark
D	upright ($\frac{1}{2}$, 1)	1 mark
E	top ($\frac{1}{2}$, 1)	1 mark
F	slot ($\frac{1}{2}$, 1)	1 mark
G	use of tone on flat surfaces (0, $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2)	2 marks
H	highlights plus rendering of curved surface ($\frac{1}{2}$, 1)	1 mark

Total = 10 marks

[END OF MARKING INSTRUCTIONS]