

**QUESTION 2: INTERPENETRATION AND DEVELOPMENT**

**Given:**

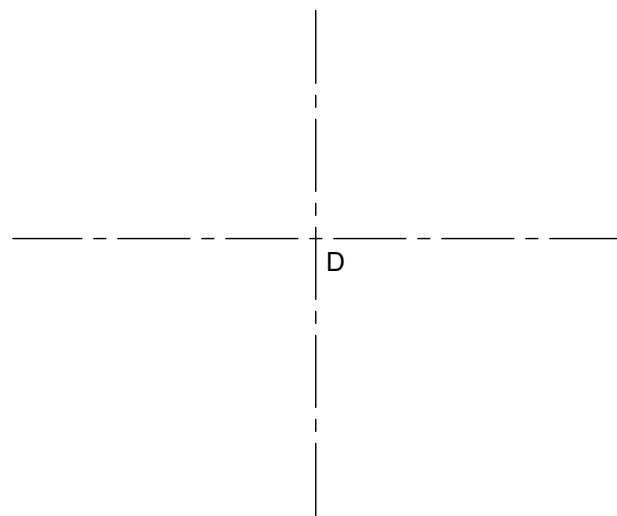
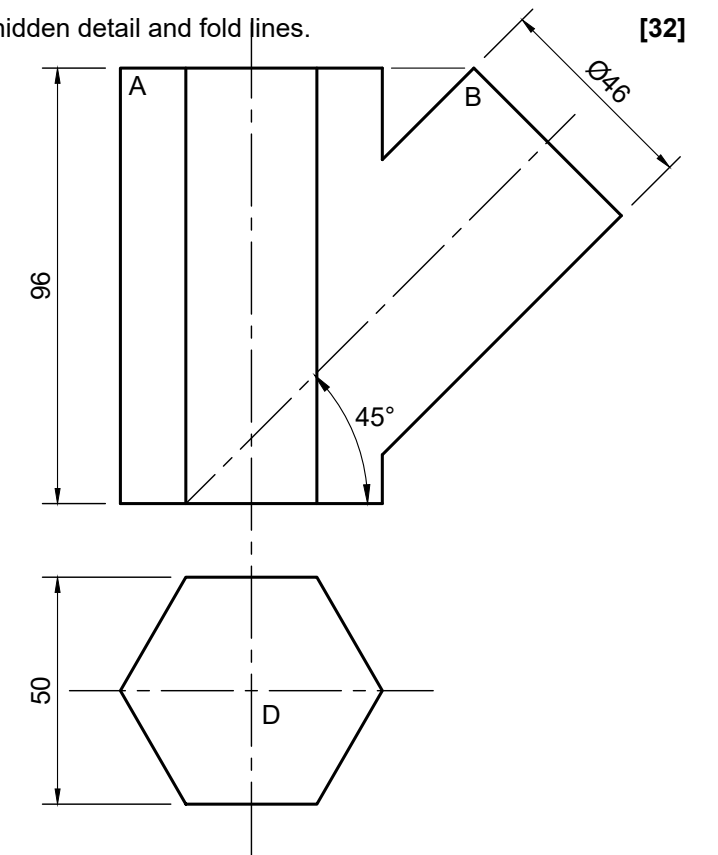
- The incomplete front view and the top view of a regular square prism that has been shaped to fit around a right regular hexagonal prism.
- The axes of both prisms lie in a common vertical plane.
- The auxiliary view of the square prism.
- The position of point O on the drawing sheet.

**Instructions:**

Draw to scale 1 : 1, the following views of the two prisms:

- 2.1 The given top view
- 2.2 The left view
- 2.3 The complete front view, clearly showing the curve of interpenetration
- 2.4 Develop the surface of the hexagonal prism. Use point A as the start position.
- 2.5 Develop the surface of the square prism. Use point S as the start position.

Show all hidden detail and fold lines.



ASSESSMENT CRITERIA			
1	GIVEN + CENTRE LINES	8	
2	AUX CIRCLES	4	
3	PROJECTION	4	
4	INTERPENETRATION	5.5	
5	TOP VIEW OF CYLINDER	7	
6	DEVELOPMENT	11.5	
<b>TOTAL</b>		<b>40</b>	



INTERPENETRATION & DEVELOPMENTS	ESTIMATED TIME FOR COMPLETION	35 MIN	GRADE <b>12</b>	NAME & SURNAME		TASK	PAGE
	YOUR TIME OF COMPLETION	MIN				9.5	32