

QUESTION 2: INTERPENETRATION AND DEVELOPMENT

A company that installs ventilation systems in buildings, designed a pipe system to fit into an office block. The system consists of a main cylindrical pipe and smaller branch pipes. **Given:**The incomplete front view of a connecting piece for the ventilation system consisting of a cylindrical pipe (A) and a cylindrical branch pipe (B). The axes of both pipes lie in a common vertical plane.

Instructions:

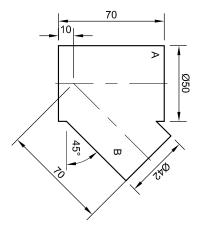
2.1 Draw in first-angle orthographic projection the following views of the connecting piece clearly showing the curve of interpenetration:

2.1.1 The front view

2.1.2 The top view

2.2 Develop the surface of the branch pipe marked B.

Show ALL necessary construction and calculations. [37]



ASSESSMENT CRITERIA FRONT VIEW 10

TOP VIEW CENTRE LINES (5x½) CONSTRUCTION	0 6 27 6 5
CONSTRUCTION	တ
FORMULA	2
DEVELOPMENT	10½
TOTAL	37

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EXAMINATION NUMBER EXAMINATION NUMBER 3