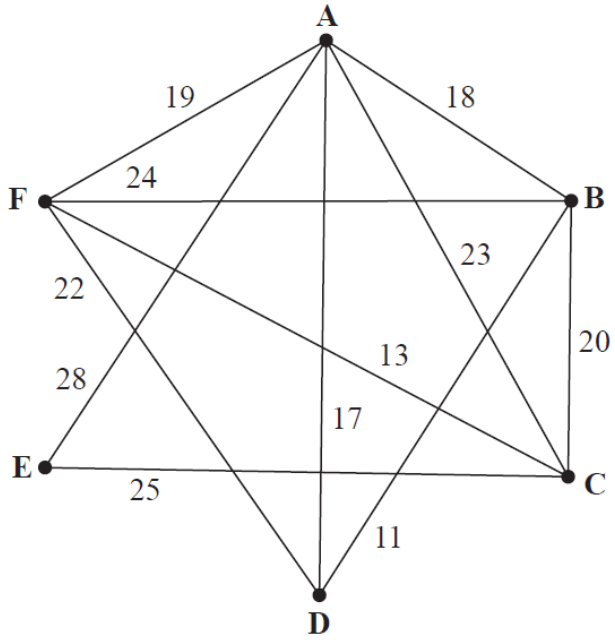
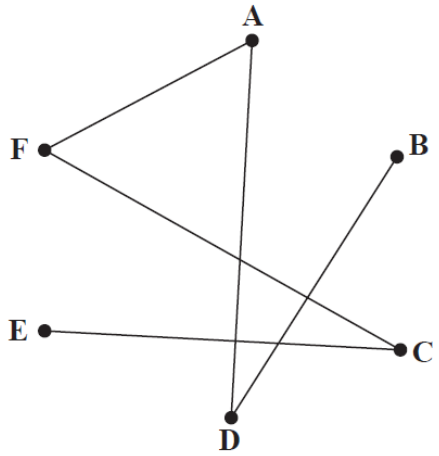
Question Number	Scheme	Marks
1. (a)		M1 A1 **(2)**
(b)	Kruskal: BD(11), CF(13), AD(17), reject AB(18), AF(19), reject BC(20), reject DF(22), reject AC(23), reject BF(24), CE(25) (not AE)	M1 A1 A1 **(3)**
(c)		B1
	Weight of MST = 85 (metres)	B1 **(2)**
		7 marks

Notes for Question 1

a1M1: At least 8 correct arcs with corresponding correct values **or** all 11 correct arcs
a1A1: CSO (11 arcs only + correct values) – give bod
b1M1: Kruskal's: first three arcs (BD, CF, AD) correctly chosen and at least one rejection seen at some point
b1A1: All arcs in tree selected correctly and in the correct order (BD, CF, AD, AF, CE) – no other arcs in MST
b2A1: CSO including all rejections correct and at the correct time – AE need not be considered but if AE is considered then it must be rejected after CE has been added to the MST
c1B1: CAO (tree)
c2B1: CAO (85)