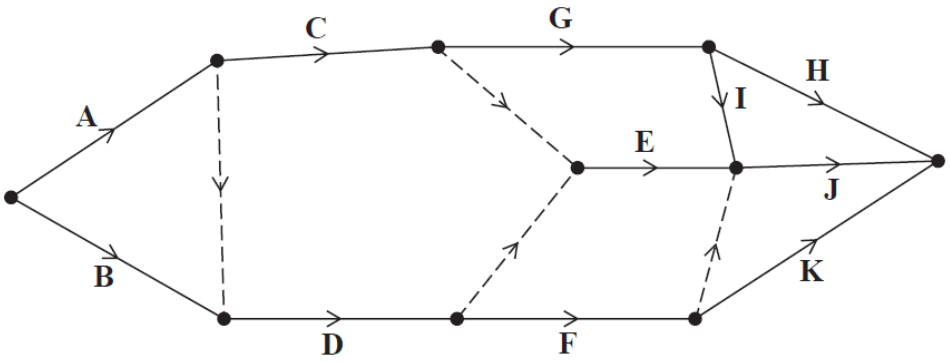
Question Number	Scheme	Marks
4.(a)		M1 A1 A1 A1 A1 **(5)**
(b)	D and F are guaranteed to be critical	B1 **(1)**
(c)	Critical path: A – C – G – I – J	B1 **(1)**
		7 marks

Notes for Question 4

In **(a)** condone lack of, or incorrect, numbered events throughout – also 'dealt with correctly' means that the activity starts from the correct event but may not finish at the correct event (use the table below to check this). **Activity on node is M0**

If an arc is not labelled, for example, if the arc for activity D is not labelled (but the arc is present) then this will lose the first A mark and the final (CSO) A mark – they can still earn the second A mark on the bod. If two or more arcs are not labelled then mark according to the scheme. Assume that a solid line is an activity which has not been labelled rather than a dummy (even if in the correct place for where a dummy should be)

Ignore incorrect or lack of arrows on the activities for the first four marks only

a1M1: Eight activities (labelled on arc), one start and at least two dummies placed
a1A1: Activities A, B, C, 1st dummy (+ correct arrow on this dummy – this is the dummy at the end of A) and D dealt with correctly
a2A1: 2nd and 3rd dummies (+ correct arrows on these dummies – these dummies are the ones at the end of C and D) and E, F and G dealt with correctly
a3A1: 4th dummy (+ correct arrow on this dummy – this is the dummy at the end of F) and activities H, I , J and K dealt with correctly
a4A1: CSO – all arrows present and correctly placed with one finish
Please check all arcs carefully for arrows – if there are no arrows on any dummies then M1 only.
Note that additional (but unnecessary) 'correct' dummies that still maintain precedence for the network should only be penalised with the final A mark if earned

b1B1: CAO (D and F) and no other activities stated as critical (however, ignore K if stated too)
c1B1: CAO (A – C – G – I – J)

Activity	A	B	C	D	E	F	G	H	I	J	K
IPA	-	-	A	A, B	C, D	D	C	G	G	E, F, I	F