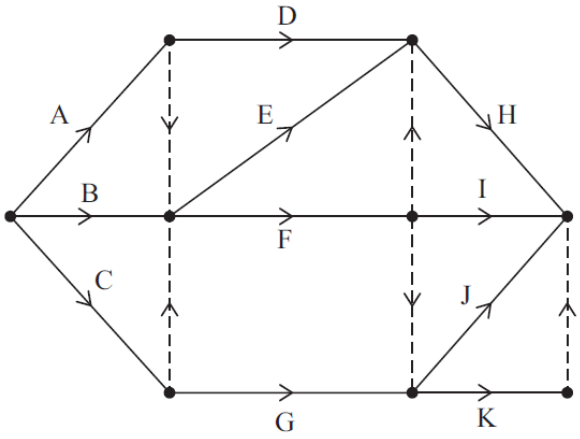
Question Number	Scheme	Marks
4.(a)	e.g. 	M1 A1 A1 A1 A1 **(5)**
(b)	Activities A, B, C, F and H are critical	B1 **(1)**
		6 marks
	Notes for Question 4	
	Condone lack of, or incorrect, numbered events throughout. 'Dealt with correctly' means that the activity starts from the correct event but need not necessarily finish at the correct event, e.g. 'H dealt with correctly' requires the correct precedences for this activity, i.e. D and E labelled correctly and leading into the same node, a dummy from the end of F into the node and H starting from that node but do not consider the end event. **Activity on node is M0**	
	If an arc is not labelled, for example, if the arc for activity E 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	Nine activities (labelled on arc), one start and at least two dummies placed	
a1A1	Activities A, B, C, 1st two dummies (including correct arrow), D, E and F dealt with correctly	
a2A1	Activities G, H and I dealt with correctly and dummy from the end of F to end of D/E (including correct arrow)	
a3A1	Activities J and K dealt with correctly and dummy from the end of F to end of G (including correct arrow)	
a4A1	CSO – all arrows correctly placed for each activity with one finish and exactly five dummies (so uniqueness dummy for J/K required)	

	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. Note that this answer is not unique (e.g. J and K are interchangeable, the arrow on the dummy between K and J can go in either direction or this dummy could be at the start of J and K)**	
b1B1	CAO (A, B, C, F and H and no others, but condone mention of D and/or I)	