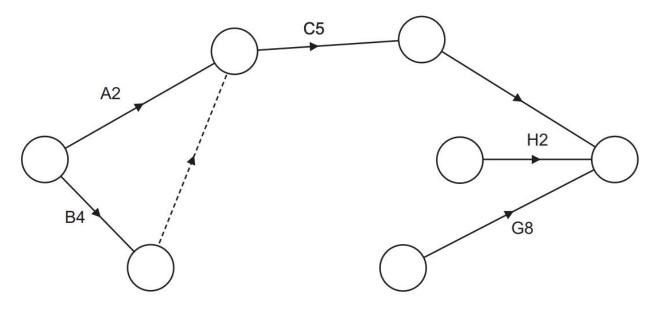
Question 16 (14 marks)

Valeska and her sister Katrin are planning a small building project. The table below shows the required activities, together with the times taken (in days) and the immediate predecessors for each activity.

Activity	Α	В	С	D	E	F	G	Н
Time (days)	2	4	5	3	6	3	8	2
Immediate predecessors	_	_	A, B	В	С	С	D	D, F

(a) Complete the project network below, showing all activities and durations. (3 marks)



(b) Determine all critical activities and the minimum completion time for the project. (3 marks)

(c)	Calculate the float times for each of the non-critical activities.	(3 marks)

(d)	If Activity H is delayed by three days, what effect will this have on the minimum completion time and the critical activities? (2	2 marks)
(e)	Extra resources become available that can be used to shorten the duration of one Activities B, E or F (on the original network) by one day. Which of these activities be shortened and why?	