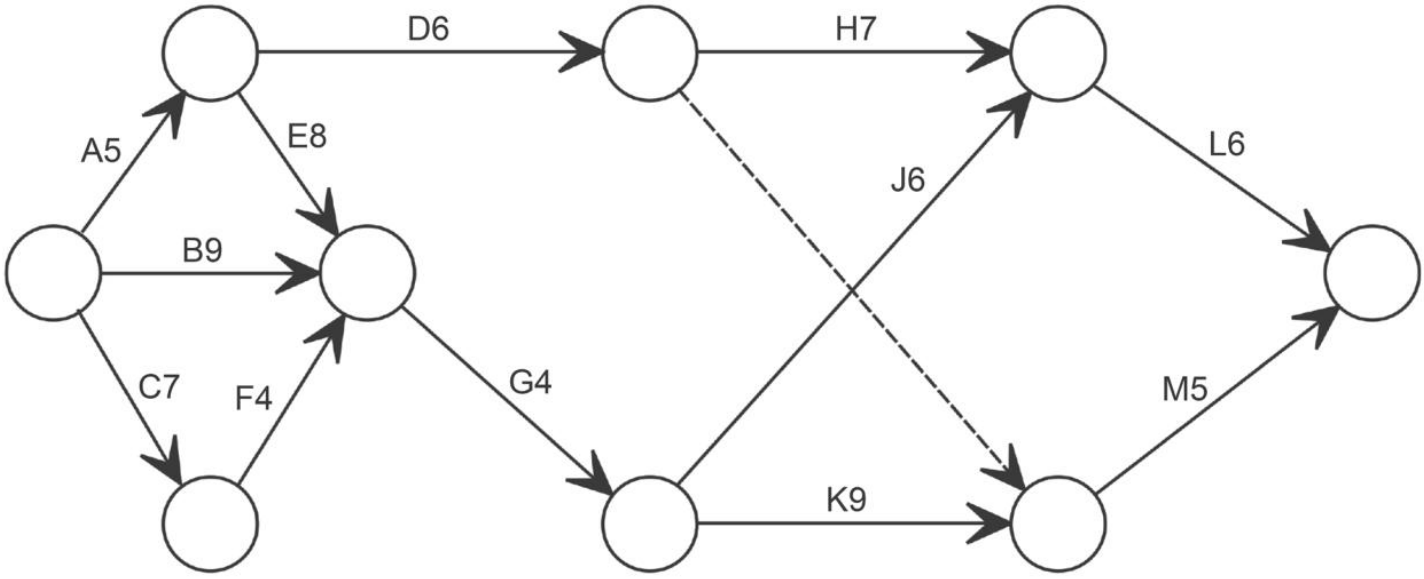
Question 6 **(12 marks)**

A landscape architect has produced the following project network for the development of a community market garden. The digraph shows the order of completion of the various tasks and their expected completion time in hours.



(a) Complete the immediate predecessor/s column in the table below. (3 marks)

Task	Time (hours)	Immediate predecessor/s
A	5	
B	9	
C	7	
D	6	
E	8	
F	4	
G	4	
H	7	
J	6	
K	9	
L	6	
M	5	

(b) Determine the critical path and the minimum completion time for the project. Workings must be shown to verify your answer. (3 marks)

(c) Determine which task/s have a float time of exactly 2 hours. (2 marks)

(d) Describe why Task D can be delayed by 6 hours and not affect the minimum completion time. (2 marks)

(e) Due to the release of a new piece of technology for reticulation control, Task G is no longer required. Redraw the network showing how the removal of Task G will change the configuration of the network. Task times are **not** required to be shown. (2 marks)