1998 Paper 8 Question 5

Business Studies

The figure shows a section of a PERT diagram for a small software project, together with the number of programmer-days each task is estimated to take.

(*a*) What is the *critical path* in a PERT diagram and why is it important? What is the critical path in the PERT diagram shown below?   [5 marks]

(*b*) One analyst and two programmers are assigned to the project, in addition to the manager. How long will the project take?   [5 marks]

(*c*) Derive the equivalent GANTT chart for the project.   [5 marks]

(*d*) Task 8 slips by 2 days. How does this affect the project? What actions, if any are required, can be taken to alleviate the slippage?   [5 marks]