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]